

SEARCH REQUEST FORM**Scientific and Technical Information Center**

Requester's Full Name: DAWN GARRETT Examiner #: 76107 Date: 4/19/2004
 Art Unit: 1774 Phone Number ~~36~~ 272-1523 Serial Number: 10/659,255
 Mail Box and Bldg/Room Location: Remsen 5C75 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Water-Scavenging Agent For An Organic Electroluminescent Device And Organic Electroluminescent Device Comprising Same
 Inventors (please provide full names): _____

HIKAMITSU TAKAHASHI, SHIGERU HIEDA, YOSHIHISA TSURUOKA,
 Earliest Priority Filing Date: 9/12/2002 (JP 2002-267138) SATOSHI TANAKA

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

*Please search compound (I)
 (including compound II in search).*

Thank you.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>EL</u>	NA Sequence (#) _____	STN <u>\$ 560.40</u>
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Online Time: <u>85</u>	Other _____	Other (specify) _____

=> file hca

FILE 'HCA' ENTERED AT 20:49:45 ON 20 APR 2004

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=> d 145 1-3 cbib abs hitstr hitind

L45 ANSWER 1 OF 3 HCA COPYRIGHT 2004 ACS on STN

140:278555 **Water-scavenging** agent for an organic

electroluminescent device and organic

electroluminescent device comprising same. Takahashi,

Hisamitsu; Hieda, Shigeru; Tsuruoka, Yoshihisa; Tanaka, Satoshi

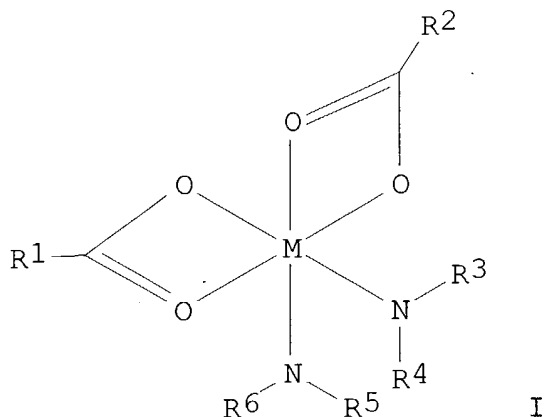
(Futaba Corporation, Japan). U.S. Pat. Appl. Publ. US 2004056232 A1

20040325, 14 pp. (English). CODEN: USXXCO. APPLICATION: US

2003-659255 20030911. PRIORITY: JP 2002-267138 20020912.

GI

Application



AB A novel **water-scavenging** agent of the present invention comprising a compd. of formula I as a primary component can be dissolved in a polar solvent and coated by a screen printing method, and the inventive org. **EL** device comprising same can maintain stable **luminescent** characteristics for a prolonged time: I wherein, R1 , R2 , R3 , R4 , R5 and R6 are each independently hydrogen; halogen; alkyl, aryl, cycloalkyl or hetero-ring, optionally substituted with at least one halogen atom, and M is a metal having a coordination no. of 6.

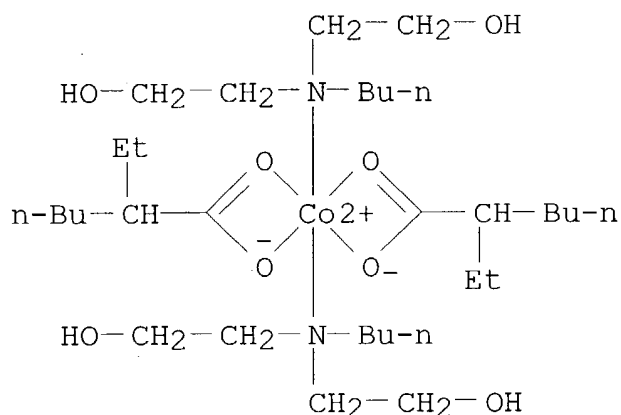
IT

674293-41-5 674293-44-8

(**water-scavenging** agent for an org.
electroluminescent device)

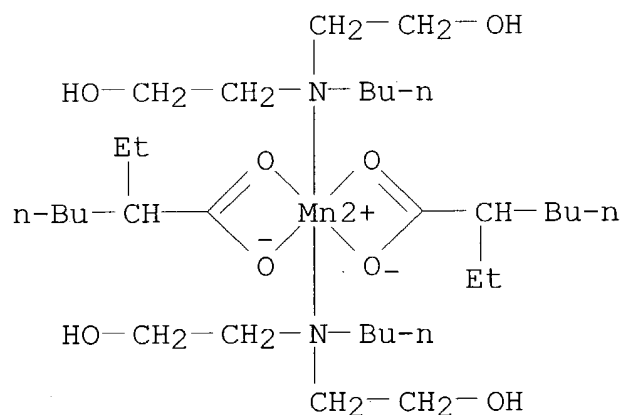
RN 674293-41-5 HCA

CN Cobalt, bis[2,2'-(butylimino-κN)bis[ethanol]]bis(2-ethylhexanoato-κO,κO')- (9CI) (CA INDEX NAME)



RN 674293-44-8 HCA

CN Manganese, bis[2,2'-(butylimino-κN)bis[ethanol]]bis(2-ethylhexanoato-κO,κO')- (9CI) (CA INDEX NAME)

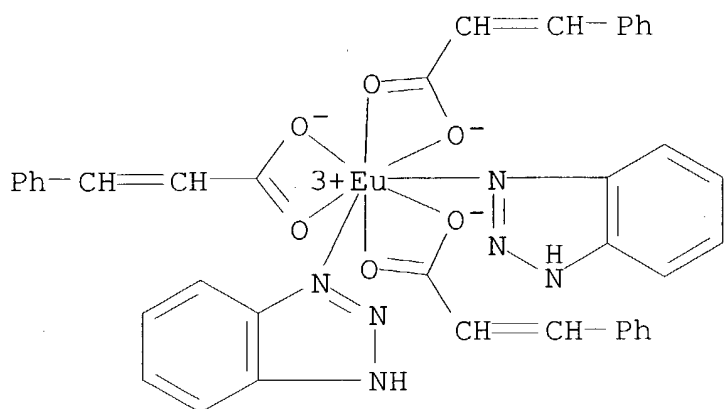


IC ICM C02F005-10

NCL 252180000

CC **74-13** (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)ST **water scavenger** org **electroluminescent** deviceIT **Scavengers**(for **water**; **water-scavenging** agent
for an org. **electroluminescent** device)IT **Electroluminescent** devices(water-scavenging agent for an org.
electroluminescent device)

- IT 64-17-5, Ethanol, reactions 66-71-7, 1,10-Phenanthroline
102-79-4, Butyldiethanolamine 108-88-3, Toluene, reactions
589-81-1, 2-Ethylhexane 10124-43-3, Cobalt sulfate 37275-48-2,
Bipyridine
(water-scavenging agent for an org.
electroluminescent device)
- IT 7732-18-5, Water, processes
(water-scavenging agent for an org.
electroluminescent device)
- IT 674293-39-1 674293-40-4 **674293-41-5** 674293-42-6
674293-43-7 **674293-44-8**
(water-scavenging agent for an org.
electroluminescent device)
- L45 ANSWER 2 OF 3 HCA COPYRIGHT 2004 ACS on STN
135:336408 **Luminescence** spectral properties of europium(III)
and terbium(III) complexes with cinnamic acid. Kalinovskaya, I. V.;
Karasev, V. E.; Zadorozhnaya, A. N.; Lifar, L. I. (Inst. Chem.,
Russian Acad. Sci., Vladivostok, 690022, Russia). Russian Journal
of Coordination Chemistry (Translation of Koordinatsionnaya
Khimiya), 27(7), 516-519 (English) 2001. CODEN: RJCCEY. ISSN:
1070-3284. Publisher: MAIK Nauka/Interperiodica Publishing.
- AB Eu and Tb mixed-ligand complexes with cinnamic acid
 $\text{Ln}(\text{Cin})_3 \cdot n\text{D} \cdot x\text{H}_2\text{O}$, where $\text{Ln} = \text{Eu}^{3+}$ or Tb^{3+} , Cin is a
cinnamate ion ($\text{C}_6\text{H}_5\text{CH}=\text{CHCOO}^-$), D = 1,10-phenanthroline,
2,2'-dipyridyl, benzotriazole ($n = 2, x = 0$), OPPh_3 ($n = 1, x = 2$),
or H_2O ($n = 0$ or $1, x = 0$), were synthesized. The compds. were
characterized by elemental anal., IR and **luminescence**
spectroscopy. The Stark structure of the $5\text{D}_0-7\text{F}_j$ ($j = 0, 1, 2$)
electronic transitions in the low-temp. **luminescence**
spectra of Eu complexes was analyzed. IR study revealed a bidentate
coordination of the cinnamate ion in the compds.
- IT **370102-61-7**
(**luminescence** spectral properties of europium(III) and
terbium(III) complexes with cinnamic acid)
- RN 370102-61-7 HCA
- CN Europium, bis(1H-benzotriazole- $\kappa\text{N}3$)tris(3-phenyl-2-propenoato-
 $\kappa\text{O}, \kappa\text{O}'$)-(9CI) (CA INDEX NAME)



CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

ST **luminescence** europium terbium cinnamic acid complex

IT Energy level splitting

Luminescence

Triplet state

X-ray diffraction

(**luminescence** spectral properties of europium(III) and terbium(III) complexes with cinnamic acid)

IT Singlet state

(of cinnamic acid; **luminescence** spectral properties of europium(III) and terbium(III) complexes with cinnamic acid)

IT 188524-01-8 370102-60-6 **370102-61-7** 370102-62-8
370102-63-9 370102-64-0

(**luminescence** spectral properties of europium(III) and terbium(III) complexes with cinnamic acid)

L45 ANSWER 3 OF 3 HCA COPYRIGHT 2004 ACS on STN

128:10948 Inhibition of photosynthetic electron transport in spinach chloroplasts by anti-inflammatory Cu(II) compounds. Kralova, K.; Sersen, F.; Melnik, M.; Fargasova, A. (Fac. Natural Sci., Inst. Chem., Comenius Univ., Bratislava, 842 15, Slovakia). Monograph Series of the International Conferences on Coordination Chemistry held periodically at Smolenice in Slovakia, 3(Progress in Coordination and Organometallic Chemistry), 233-238 (English) 1997. CODEN: MSICF5. Publisher: Slovak Technical University Press.

AB Copper(II) complexes with ligands showing anti-inflammatory activity (e.g. salicylate, acetylsalicylate, flufenamate, mephemate, niflumate or naproxenate) and some other biol. active ligands (nicotinamide, ronicol, caffeine, or N,N-diethylnicotinamide) inhibit photosynthetic electron transport in spinach chloroplasts. The inhibitory activity of the above compds. concerning oxygen evolution rate in spinach chloroplasts is comparable with that of

CuSO₄. The concns. of the studied complexes causing 50% decrease of oxygen evolution rate (IC₅₀-values) varied in the range of 6.3-14.5 $\mu\text{mol dm}^{-3}$. In the studied set of 17 Cu(II) complexes the most active inhibitors were Cu(acsal)₂ and Cu(mef)₂(ron)₂. Based on the results of EPR spectroscopy it can be confirmed that the site of action of the studied Cu(II) complexes are Z/D intermediates, i.e. tyrosine radicals at the position 161 in D1 and D2 proteins on the donor side of photosystem 2. The studied compds. do not interact with the oxygen evolving complex. The interaction of the studied Cu(II) complexes with chlorophyll and with arom. amino acids which are present in the photosynthetic centers was supported by the results of **fluorescence** measurements as well.

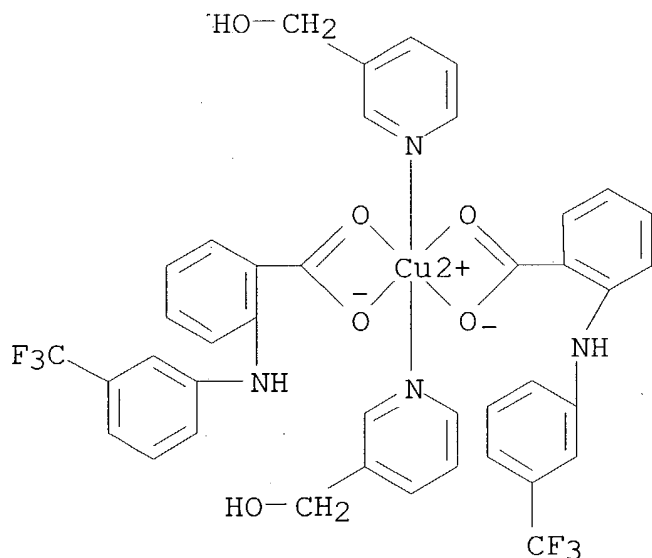
IT 113553-92-7 130294-24-5 158443-73-3

199185-83-6 199185-85-8 199185-90-5

(photosynthetic electron transport inhibition in spinach chloroplasts by anti-inflammatory Cu(II) compds.)

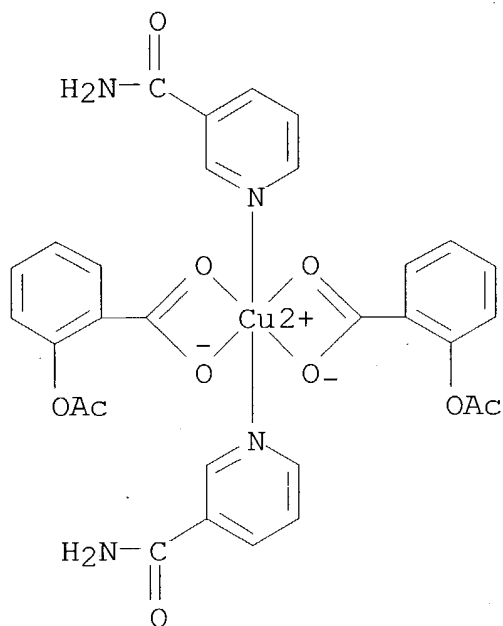
RN 113553-92-7 HCA

CN Copper, bis(3-pyridinemethanol- κN1)bis[2-[[3-(trifluoromethyl)phenyl]amino]benzoato- $\kappa\text{O},\kappa\text{O}'$]- (9CI)
(CA INDEX NAME)

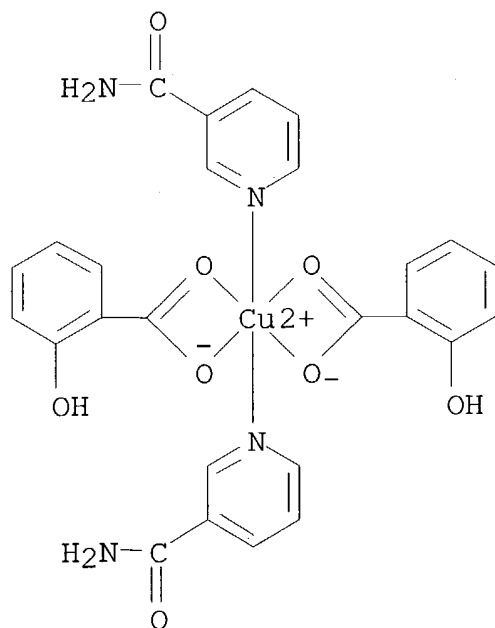


RN 130294-24-5 HCA

CN Copper, bis[2-(acetyloxy)benzoato- $\kappa\text{O},\kappa\text{O}'$]bis(3-pyridinecarboxamide- κN1)-, (OC-6-11)- (9CI) (CA INDEX NAME)

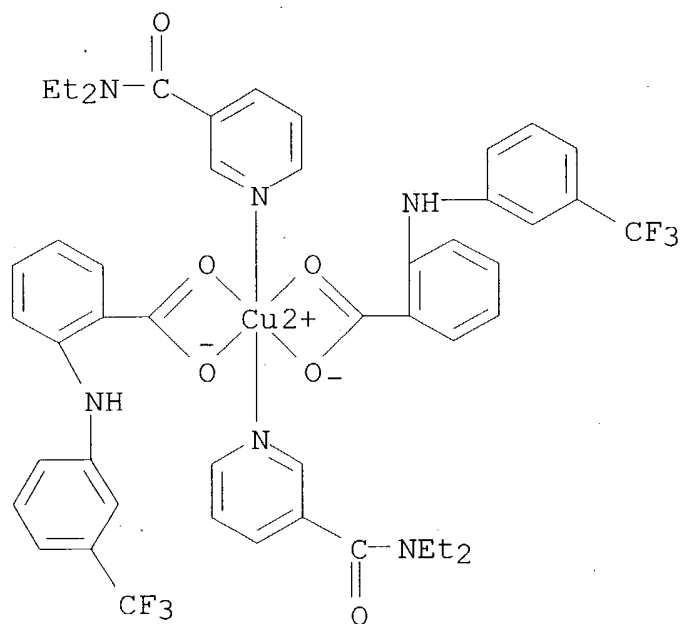


RN 158443-73-3 HCA

CN Copper, bis(2-hydroxybenzoato- $\kappa O, \kappa O'$)bis(3-pyridinecarboxamide- $\kappa N1$)-, (OC-6-11)- (9CI) (CA INDEX NAME)

RN 199185-83-6 HCA

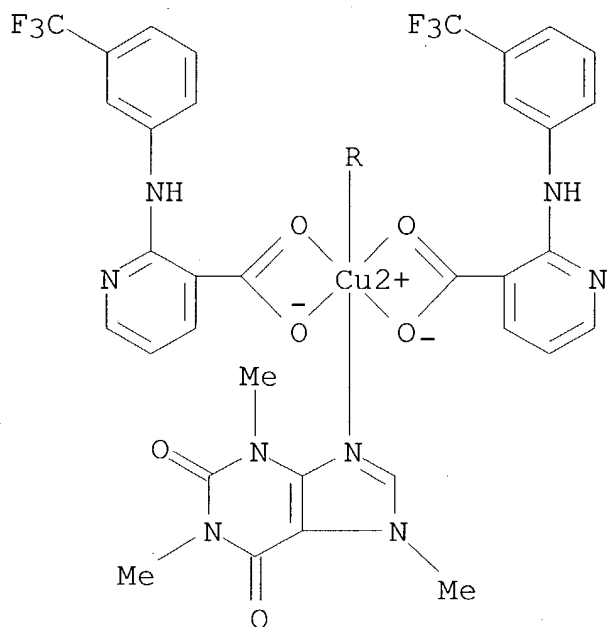
CN Copper, bis(N,N-diethyl-3-pyridinecarboxamide- κ N1)bis[2-[[3-(trifluoromethyl)phenyl]amino]benzoato- κ O, κ O']-,
(OC-6-11)-(9CI) (CA INDEX NAME)



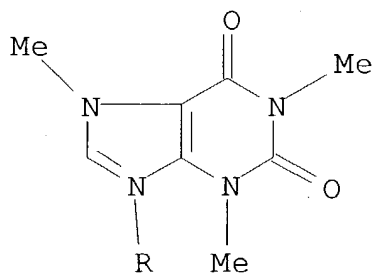
RN 199185-85-8 HCA

CN Copper, bis(3,7-dihydro-1,3,7-trimethyl-1H-purine-2,6-dione- κ N9)bis[2-[[3-(trifluoromethyl)phenyl]amino]-3-pyridinecarboxylato- κ O3, κ O3']-, (OC-6-11)-(9CI) (CA INDEX NAME)

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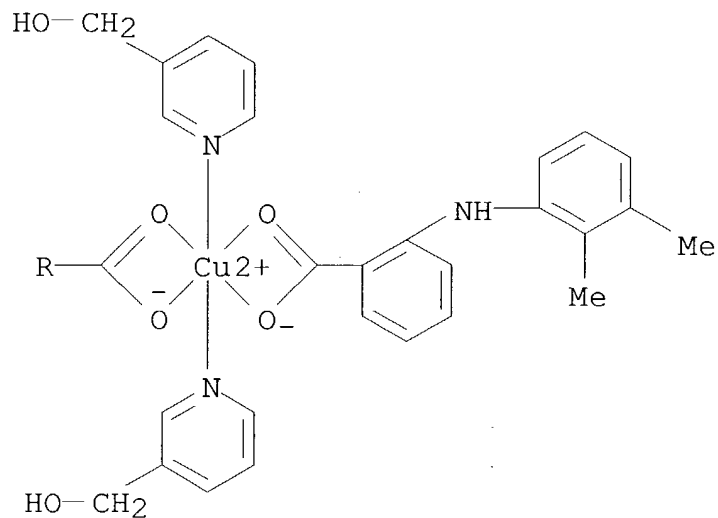


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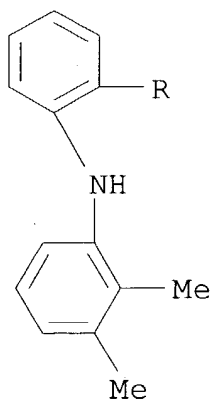


RN 199185-90-5 HCA
 CN Copper, bis[2-[(2,3-dimethylphenyl)amino]benzoato- κ O, κ O']bis(3-pyridinemethanol- κ N1)-, (OC-6-11)-(9CI) (CA INDEX NAME)

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CC 4-3 (Toxicology)
 Section cross-reference(s): 11
 IT 7440-50-8, Copper, biological studies 7440-50-8D, Copper,
 complexes, biological studies 15523-07-6 53021-04-8
 113553-91-6 **113553-92-7** 129004-01-9 **130294-24-5**
158443-73-3 197432-49-8 199185-82-5 **199185-83-6**
 199185-84-7 **199185-85-8** 199185-86-9 199185-87-0
 199185-88-1 199185-89-2 **199185-90-5**
 (photosynthetic electron transport inhibition in spinach)

chloroplasts by anti-inflammatory Cu(II) compds.)

=> d 146 1-36 cbib fhitr

L46 ANSWER 1 OF 36 HCA COPYRIGHT 2004 ACS on STN

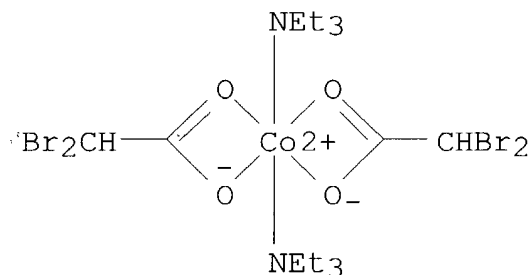
139:331767 Synthesis and characterisation of some new metal dibromoacetates. Puri, J. K.; Miglani, Ashu; Anand, Hardeep; Jindal, Rajiv; Talwar, Dinesh (Department of Chemistry, Punjab University, Chandigarh, 160 014, India). Oriental Journal of Chemistry, 19(1), 25-34 (English) 2003. CODEN: OJCHEG. ISSN: 0970-020X. Publisher: Oriental Scientific Publishing Co..

IT 614717-29-2P

(prepn. and crystal field parameters)

RN 614717-29-2 HCA

CN Cobalt, bis(dibromoacetato- κ O, κ O')bis(N,N-diethylethanamine)- (9CI) (CA INDEX NAME)



L46 ANSWER 2 OF 36 HCA COPYRIGHT 2004 ACS on STN

138:65575 Synthesis and spectral studies of thorium(IV) and dioxouranium(V) metal complexes with Schiff base ligand. Arora, Kishor; Goyal, R. C.; Agarwal, D. D.; Pathak, M. C. (Department of Chemistry, Government Autonomous K. R. G. College, Gwalior, 474 001, India). Journal of the Indian Chemical Society, 79(8), 686-688 (English) 2002. CODEN: JICSAH. ISSN: 0019-4522. OTHER SOURCES: CASREACT 138:65575. Publisher: Indian Chemical Society.

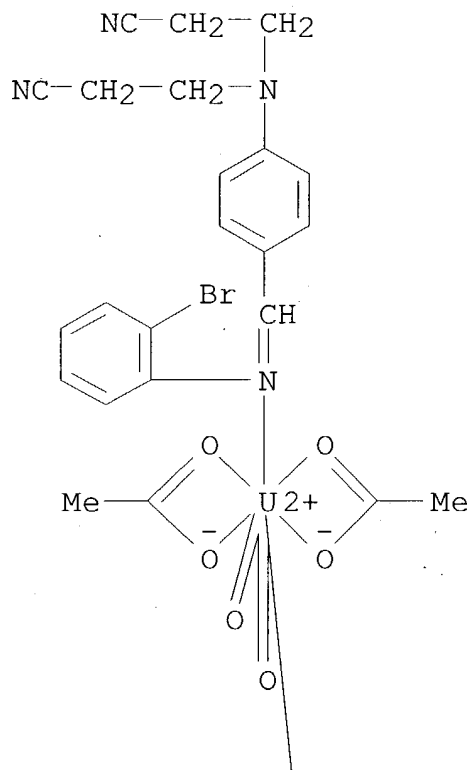
IT 479029-90-8P

(prepn. of)

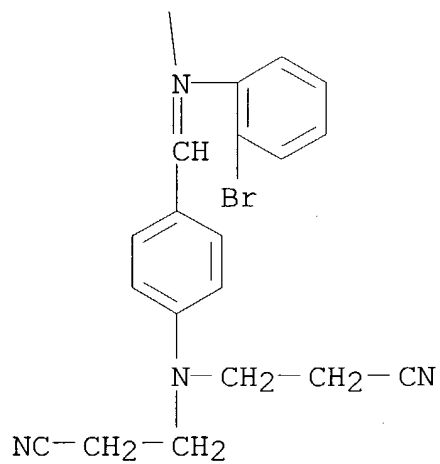
RN 479029-90-8 HCA

CN Uranium, bis(acetato- κ O, κ O')bis[3,3'-[[4-[[[2-bromophenyl]imino- κ N]methyl]phenyl]imino]bis[propanenitrile]]dioxo- (9CI) (CA INDEX NAME)

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L46 ANSWER 3 OF 36 HCA COPYRIGHT 2004 ACS on STN

137:288055 Studies on high-coordination complexes of dioxouranium(VI) with a Schiff base. Arora, Kishor; Sharma, K. P. (Department of Chemistry, Government Autonomous Kamla Raja Girls Post-Graduate College, Gwalior, India). Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 32(5), 913-922 (English) 2002. CODEN: SRIMCN. ISSN: 0094-5714. Publisher: Marcel Dekker, Inc..

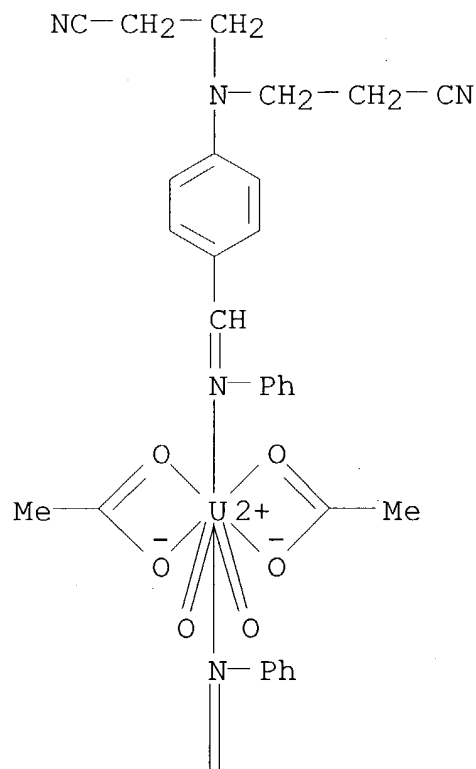
IT 464173-18-0P

(prepn. of)

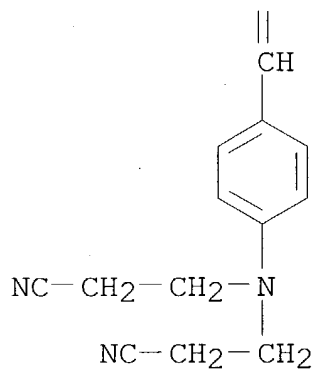
RN 464173-18-0 HCA

CN Uranium, bis(acetato- κ O, κ O')dioxobis[3,3'-[[4-[(phenylimino- κ N)methyl]phenyl]imino]bis[propanenitrile]]-(9CI) (CA INDEX NAME)

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L46 ANSWER 4 OF 36 HCA COPYRIGHT 2004 ACS on STN

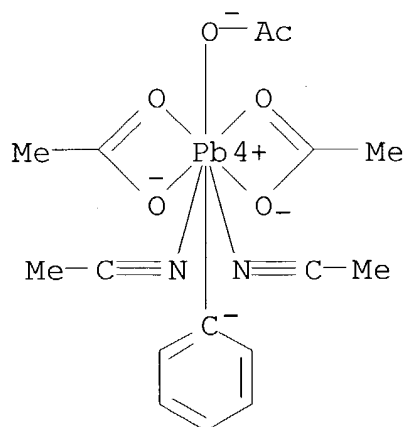
137:103131 Detection of aryllead(IV) carboxylates and their solvent adducts by ESI-mass spectrometry. Aplin, Robin T.; Buston, Jonathan E. H.; Moloney, Mark G. (The Department of Chemistry, University of Oxford, Dyson Perrins Laboratory, Oxford, OX1 3QY, UK). Journal of Organometallic Chemistry, 645(1-2), 176-182 (English) 2002. CODEN: JORCAI. ISSN: 0022-328X. Publisher: Elsevier Science B.V..

IT 441770-13-4

(detection of aryllead(IV) carboxylates and their solvent adducts by electrospray ionization mass spectrometry)

RN 441770-13-4 HCA

CN Lead, (acetato-κO)bis(acetato-κO,κO')bis(acetonitrile)phenyl- (9CI) (CA INDEX NAME)



L46 ANSWER 5 OF 36 HCA COPYRIGHT 2004 ACS on STN

136:14725 Syntheses and characterization of aluminium(III), iron(III),

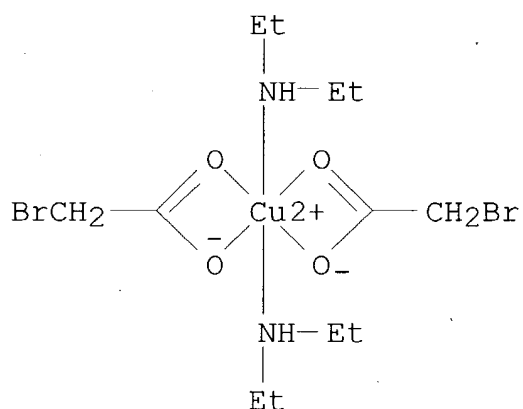
and copper(II) monobromoacetates and their complexes with organic bases. Puri, J. K.; Vats, V. K.; Miglani, Ashu (Department of Chemistry, Panjab University, Chandigarh, 160014, India). *Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry*, 31(6), 1063-1084 (English) 2001. CODEN: SRIMCN. ISSN: 0094-5714. OTHER SOURCES: CASREACT 136:14725. Publisher: Marcel Dekker, Inc..

IT **374906-22-6P**

(prepn. and IR spectra)

RN 374906-22-6 HCA

CN Copper, bis(bromoacetato- κ O, κ O')bis(N-ethylethanamine)-
(9CI) (CA INDEX NAME)



L46 ANSWER 6 OF 36 HCA COPYRIGHT 2004 ACS on STN

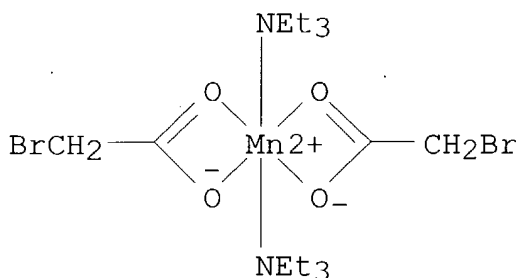
135:189276 Synthesis and characterization of titanium(IV), vanadium(III), chromium(III), and manganese(II) monobromoacetates and their complexes with organic bases. Puri, J. K.; Vats, V. K.; Miglani, Ashu (Department of Chemistry, Panjab University, Chandigarh, 160014, India). *Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry*, 31(3), 471-489 (English) 2001. CODEN: SRIMCN. ISSN: 0094-5714. OTHER SOURCES: CASREACT 135:189276. Publisher: Marcel Dekker, Inc..

IT **355007-70-4P**

(prepn. of early transition metal monobromoacetates and their amine adducts)

RN 355007-70-4 HCA

CN Manganese, bis(bromoacetato- κ O, κ O')bis(N,N-diethylethanamine)- (9CI) (CA INDEX NAME)



L46 ANSWER 7 OF 36 HCA COPYRIGHT 2004 ACS on STN

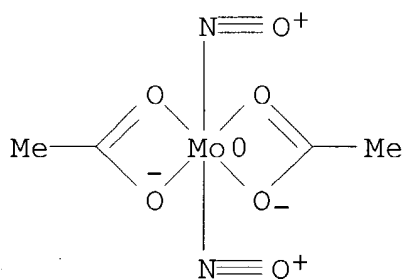
134:231079 Structure and chemical bonding in cis- and trans-M(NO)₂(O₂CR)₂ (M = Cr and Mo) complexes. Szterenber, L.; Roszak, S.; Matusiak, R.; Keller, A. (Faculty of Chemistry, University of Wroclaw, Wroclaw, 50-383, Pol.). Polyhedron, 19(26-27), 2565-2572 (English) 2000. CODEN: PLYHDE. ISSN: 0277-5387. Publisher: Elsevier Science Ltd..

IT 145203-49-2

(IR spectra and calcd. relative energy and mol. structure)

RN 145203-49-2 HCA

CN Molybdenum, bis(acetato-κO,κO')dinitrosyl-, (OC-6-21)- (9CI) (CA INDEX NAME)



L46 ANSWER 8 OF 36 HCA COPYRIGHT 2004 ACS on STN

133:114139 Synthesis and characterization of dioxouranium(VI) complexes of Schiff base ligands. Arora, Kishor; Goyab, R. C.; Agarwal, D. D. (Department of Chemistry, Government Auto, K.R.G. College, Gwalior, 474 002, India). Oriental Journal of Chemistry, 16(1), 105-110 (English) 2000. CODEN: OJCHEG. ISSN: 0970-020X. Publisher: Oriental Scientific Publishing Co..

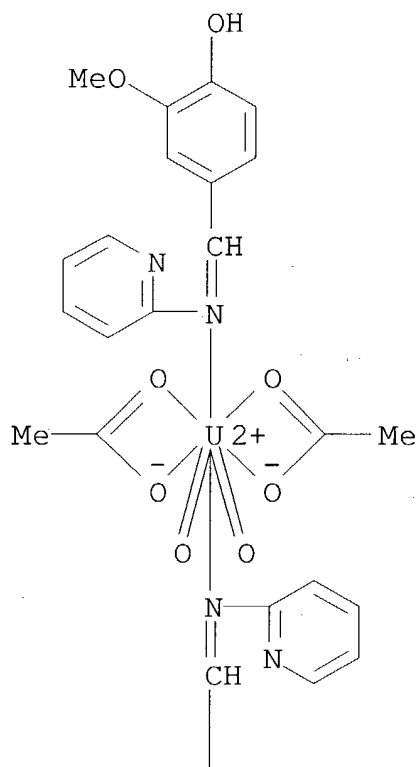
IT 284042-39-3P

(prepn. and IR spectrum and U-O force const.)

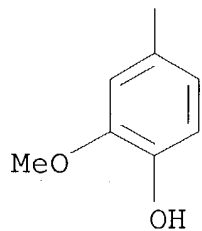
RN 284042-39-3 HCA

CN Uranium, bis(acetato-κO,κO')bis[2-methoxy-4-[(2-pyridinylimino-κN)methyl]phenol]dioxo- (9CI) (CA INDEX NAME)

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L46 ANSWER 9 OF 36 HCA COPYRIGHT 2004 ACS on STN

132:58336. Studies of dioxouranium (VI) metal complexes with a Schiff base of aminopyridine. Arora, Kishor; Sharma, D. P.; Pathak, M. C. (Department of Chemistry, Government Autonomous K.R.G. College, Gwalior, India). Oriental Journal of Chemistry, 15(2), 331-334

(English) 1999. CODEN: OJCHEG. ISSN: 0970-020X. Publisher:
Oriental Scientific Publishing Co..

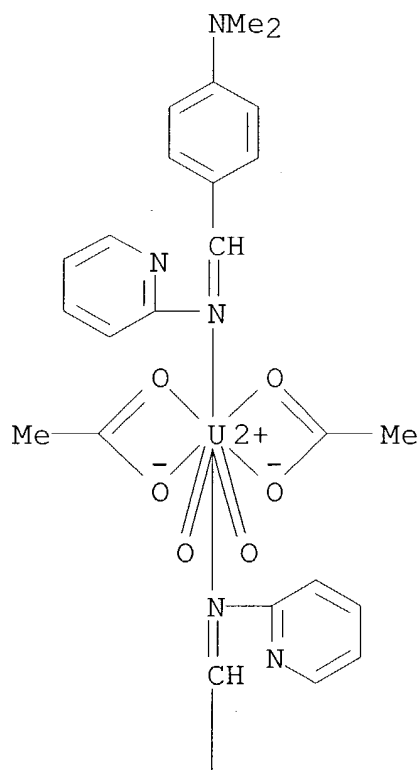
IT 252762-05-3P

(prepn. and IR spectra and antifungal activity)

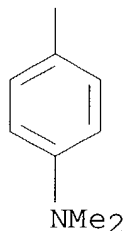
RN 252762-05-3 HCA

CN Uranium, bis(acetato- κ O, κ O')bis[N-[[4-(dimethylamino)phenyl]methylene]-2-pyridinamine- κ N2]dioxo-
(9CI) (CA INDEX NAME)

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L46 ANSWER 10 OF 36 HCA COPYRIGHT 2004 ACS on STN

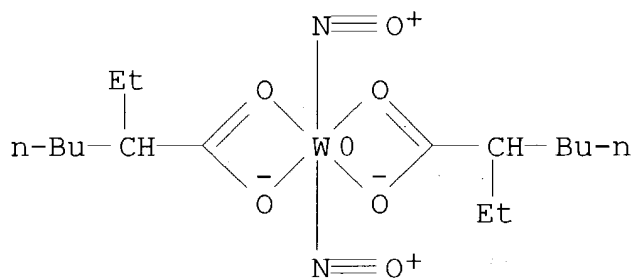
132:36084 New catalyst systems for polymerization of substituted acetylenes W(NO)₂(O₂CR)₂-MCl₄ (M = Ti, Sn). Matusiak, R.; Keller, A. (Faculty Chemistry, Univ. Wroclaw, Wroclaw, 50383, Pol.). Polymer Bulletin (Berlin), 43(2-3), 199-206 (English) 1999. CODEN: POBUDR. ISSN: 0170-0839. Publisher: Springer-Verlag.

IT 252663-95-9P

(prepn. and polymn. catalyst activity of W(NO)₂(O₂alkyl)₂(Lewis acid)₂ compds.)

RN 252663-95-9 HCA

CN Tungsten, bis(2-ethylhexanoato-κO,κO')dinitrosyl-, (OC-6-21)- (9CI) (CA INDEX NAME)



L46 ANSWER 11 OF 36 HCA COPYRIGHT 2004 ACS on STN

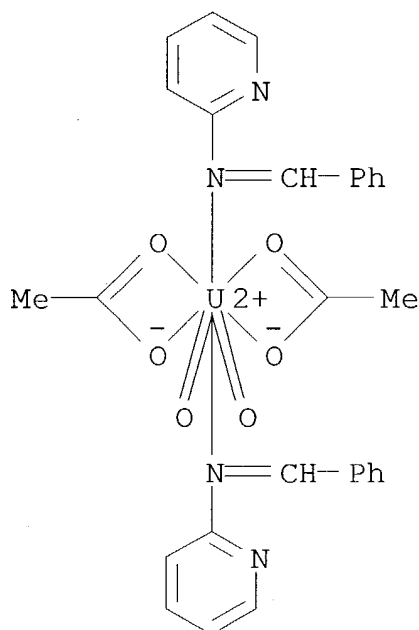
131:193265 Studies of dioxouranium(VI) metal complexes with a Schiff base of 2-aminopyridine. Arora, Kishor; Goyal, R. C.; Sharma, Susheel; Pathak, M. C. (Department of Chemistry, Government (Autonomous) K.R.G. College, Gwalior, India). Asian Journal of Chemistry, 11(3), 1005-1009 (English) 1999. CODEN: AJCHEW. ISSN: 0970-7077. Publisher: Asian Journal of Chemistry.

IT 240117-23-1P

(prepn. of)

RN 240117-23-1 HCA

CN Uranium, bis(acetato-κO,κO')dioxobis[N-(phenylmethylene)-2-pyridinamine-κN₂]- (9CI) (CA INDEX NAME)



L46 ANSWER 12 OF 36 HCA COPYRIGHT 2004 ACS on STN

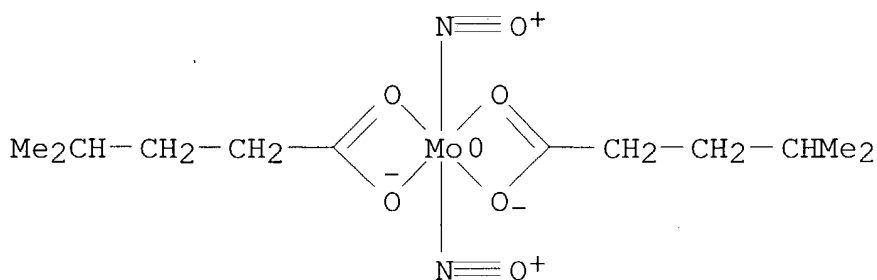
131:102571 Metathesis polymerization of substituted acetylenes by Mo(NO)₂(O₂CR)₂-Lewis acid catalysts. Keller, A.; Matusiak, R. (Faculty of Chemistry, University of Wroclaw, Wroclaw, 50-383, Pol.). Journal of Molecular Catalysis A: Chemical, 142(3), 317-324 (English) 1999. CODEN: JMCCF2. ISSN: 1381-1169. Publisher: Elsevier Science B.V..

IT 230963-34-5P

(catalysts; metathesis polymn. of substituted acetylenes by Mo(NO)₂(O₂CR)₂-Lewis acid catalysts)

RN 230963-34-5 HCA

CN Molybdenum, bis(4-methylpentanoato-κO,κO')dinitrosyl-, (OC-6-21)- (9CI) (CA INDEX NAME)



L46 ANSWER 13 OF 36 HCA COPYRIGHT 2004 ACS on STN

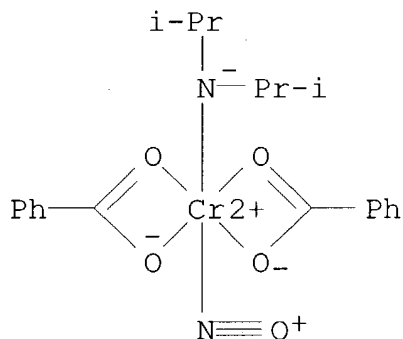
131:32016 Amide-Stabilized, Diamagnetic Chromium(II) Nitrosyl Complexes. Jandciu, Eric W.; Kuzelka, Jane; Legzdins, Peter; Rettig, Steven J.; Smith, Kevin M. (Department of Chemistry, The University of British Columbia, Vancouver, BC, V6T 1Z1, Can.). Organometallics, 18(10), 1994-2004 (English) 1999. CODEN: ORGND7. ISSN: 0276-7333. OTHER SOURCES: CASREACT 131:32016. Publisher: American Chemical Society.

IT 226945-00-2P

(prepn. and alkylation of)

RN 226945-00-2 HCA

CN Chromium, bis(benzoato- κ O, κ O') [N-(1-methylethyl)-2-propanaminato]nitrosyl-, (OC-6-32)- (9CI) (CA INDEX NAME)



L46 ANSWER 14 OF 36 HCA COPYRIGHT 2004 ACS on STN

129:350190 Supramolecular and metallosupramolecular coordination compounds of nickel(II) with the half units of vicinal oxime-imine ligands; mixed ligand complexes of the metal ion. Aly, Mohamed M.; Al-Shatti, Najat I. (Department of Chemistry, Faculty of Science, University of Kuwait, Safat, 13060, Kuwait). Transition Metal Chemistry (London), 23(4), 361-369 (English) 1998. CODEN: TMCHDN. ISSN: 0340-4285. Publisher: Chapman & Hall.

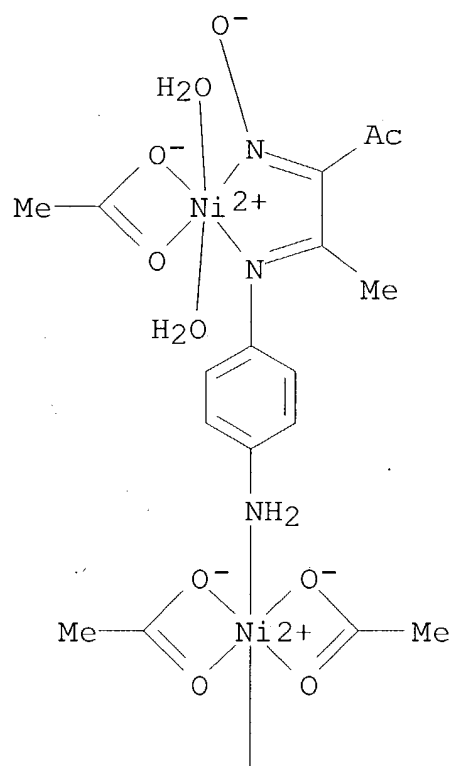
IT 215508-20-6P

(prepn. of)

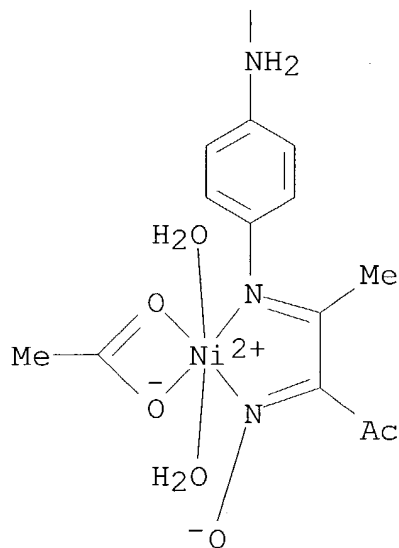
RN 215508-20-6 HCA

CN Nickel, tetrakis(acetato- κ O, κ O')bis[μ -[4-[[4-(amino- κ N)phenyl]imino- κ N]-2,3-pentanedione 3-(oximato- κ N)]]tetraaquatri- (9CI) (CA INDEX NAME)

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L46 ANSWER 15 OF 36 HCA COPYRIGHT 2004 ACS on STN

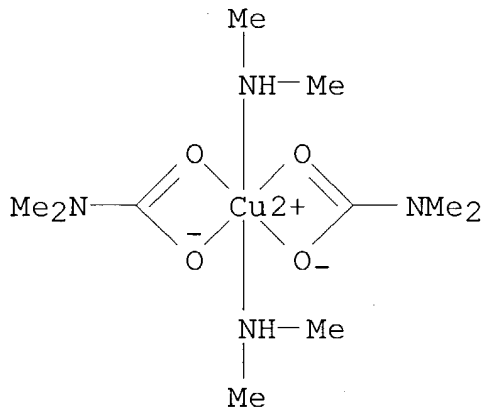
129:339099 N,N-dimethylcarbamato complexes of copper and zinc. Klunker, J.; Biedermann, M.; Schaefer, W.; Hartung, H. (Institut Physikalische Chemie, Martin-Luther-Universitaet, Halle/Saale, D-06108, Germany). Zeitschrift fuer Anorganische und Allgemeine Chemie, 624(9), 1503-1508 (German) 1998. CODEN: ZAACAB. ISSN: 0044-2313. Publisher: Johann Ambrosius Barth.

IT 215184-21-7P

(prepn. and crystal and mol. structure of)

RN 215184-21-7 HCA

CN Copper, bis(dimethylcarbamato-κO,κO')bis(N-methylmethanamine)-, (OC-6-11)-(9CI) (CA INDEX NAME)



L46 ANSWER 16 OF 36 HCA COPYRIGHT 2004 ACS on STN

128:294858 Synthesis, characterization, and reactivity of organometallic Zr(IV) carboxylate complexes. Steinhuebel, Dietrich P.; Fuhrmann, Peter; Lippard, Stephen J. (Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA). Inorganica Chimica Acta, 270(1,2), 527-536 (English) 1998. CODEN: ICHAA3. ISSN: 0020-1693. Publisher: Elsevier Science S.A..

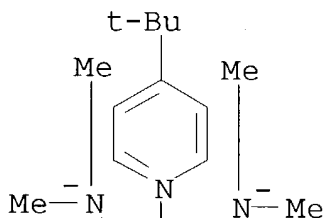
IT 205875-88-3P

(prepn. of)

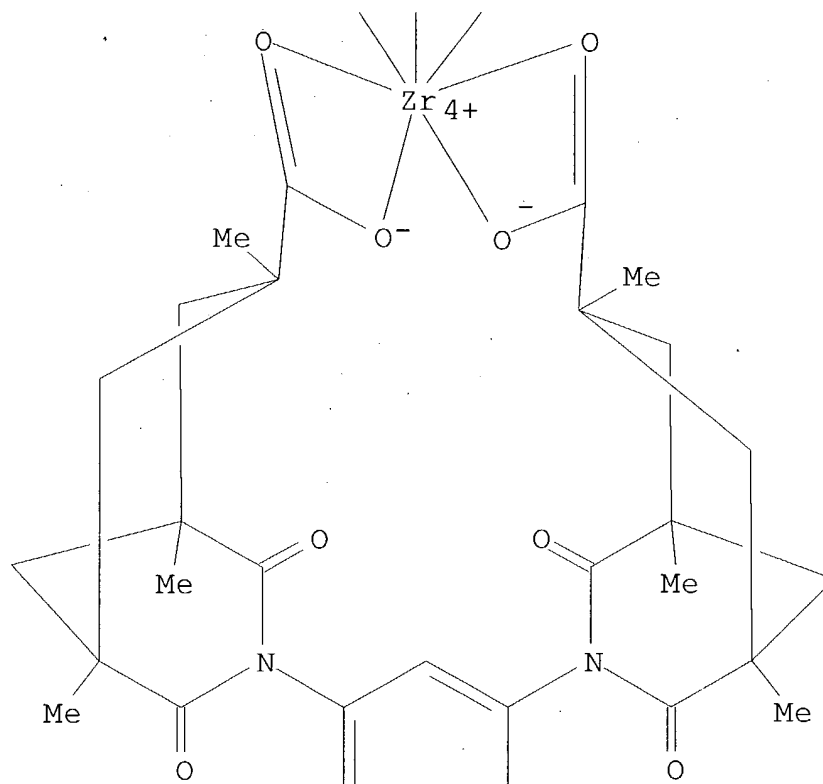
RN 205875-88-3 HCA

CN Zirconium, [4-(1,1-dimethylethyl)pyridine][[3,3'-(4,6-dimethyl-1,3-phenylene)bis[1,5,7-trimethyl-2,4-dioxo-3-azabicyclo[3.3.1]nonane-7-carboxylato-κO7,κO7']](2-)]bis(N-methylmethanaminato)-(9CI) (CA INDEX NAME)

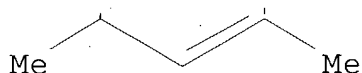
PAGE 1-A



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L46 ANSWER 17 OF 36 HCA COPYRIGHT 2004 ACS on STN

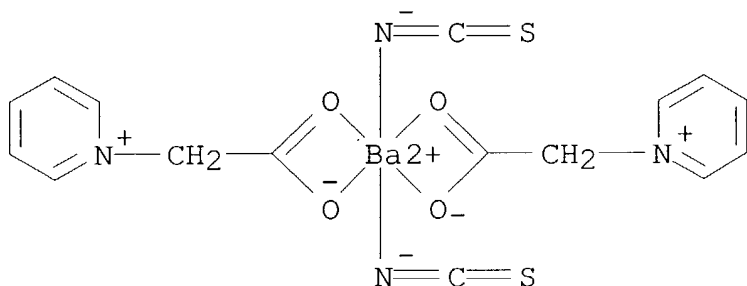
118:159815 A polymeric 1:2 adduct of barium thiocyanate with pyridine betaine, $\text{Ba}(\text{C}_5\text{H}_5\text{NCH}_2\text{CO}_2)_2(\text{NCS})_2$. Chow, Mok-Yin; Mak, Thomas C. W. (Dep. Chem., The Chin. Univ. Hong Kong, Shatin, New Territories, Hong Kong). *Inorganica Chimica Acta*, 202(2), 231-5 (English) 1992. CODEN: ICHAA3. ISSN: 0020-1693.

IT 146616-77-5P

(prepn. and crystal structure of)

RN 146616-77-5 HCA

CN Barium, bis[1-(carboxymethyl)pyridiniumato-O,O']bis(thiocyanato-N)-(9CI) (CA INDEX NAME)



L46 ANSWER 18 OF 36 HCA COPYRIGHT 2004 ACS on STN

118:115409 Dinitrosylmolybdenum complexes with anion ligands coordinating by oxygen atoms. Synthesis, electronic structure, and olefin metathesis activity of carboxylato-dinitrosyl-molybdenum complexes. Keller, Antoni; Szterenber, Ludmila (Inst. Chem., Univ. Wroclaw, Wroclaw, 50-383, Pol.). Zeitschrift fuer Naturforschung, B: Chemical Sciences, 47(10), 1469-76 (English) 1992. CODEN: ZNBSEN. ISSN: 0932-0776.

IT **146219-52-5P**
(prepn. and electronic structure and UV spectrum and activity of, as olefin metathesis catalyst)

RN 146219-52-5 HCA

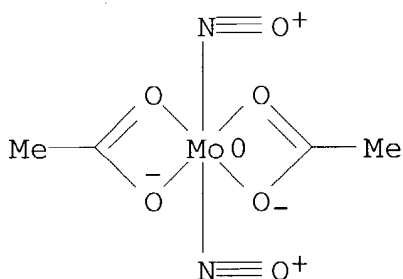
CN Molybdenum, bis(acetato-O,O')dinitrosyl-, (OC-6-21)-, compd. with methanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 145203-49-2

CMF C4 H6 Mo N2 O6

CCI CCS



CM 2

CRN 67-56-1

CMF C H4 O

H₃C-OH

L46 ANSWER 19 OF 36 HCA COPYRIGHT 2004 ACS on STN

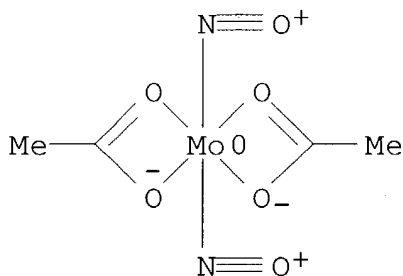
118:102154 Alkylidenedinitrosylmolybdenum complexes. Preparation, characteristics and metathesis activity of dicarboxylatoethylidenedinitrosylmolybdenum complexes. Keller, A. (Inst. Chem., Univ. Wroclaw, Wroclaw, 50-383, Pol.). Journal of Organometallic Chemistry, 436(2), 199-206 (English) 1992. CODEN: JORCAI. ISSN: 0022-328X.

IT 145203-49-2P

(prepn., IR and reactions of, with ethyldichloroaluminum and tetraethylstannane)

RN 145203-49-2 HCA

CN Molybdenum, bis(acetato-κO,κO')dinitrosyl-, (OC-6-21)-(9CI) (CA INDEX NAME)



L46 ANSWER 20 OF 36 HCA COPYRIGHT 2004 ACS on STN

115:40736 Metal complexes of ligands containing intercalating units. Synthesis of nickel(II), copper(II), rhodium(II), and platinum(II) complexes with diamine-substituted acridines and quinolines, and with mitonafide [N-2,2'-dimethylaminoethyl)-3-nitro-1,8-naphthalimide] and related ligands. Goodgame, David M. L.; Page, Christopher J.; Stratford, Ian J. (Chem. Dep., Imp. Coll. Sci. Technol. Med., London, SW7 2AY, UK). Transition Metal Chemistry (Dordrecht, Netherlands), 16(2), 223-9 (English) 1991. CODEN: TMCHDN. ISSN: 0340-4285.

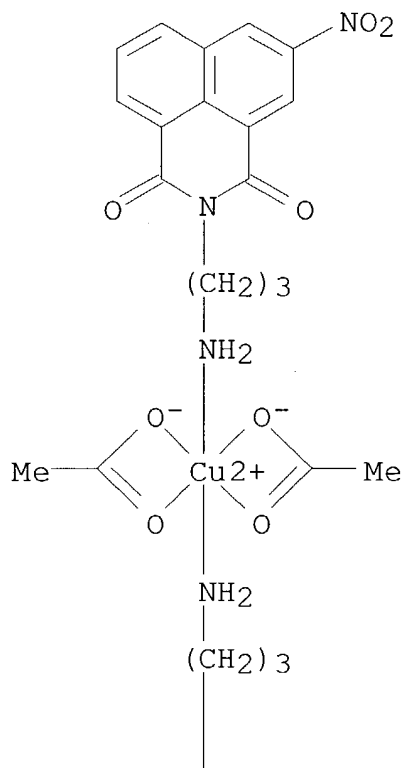
IT 133952-10-0P

(prepn. of)

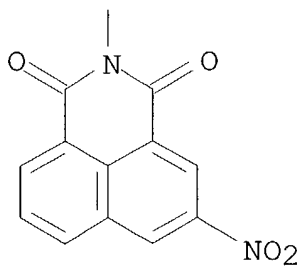
RN 133952-10-0 HCA

CN Copper, bis(acetato-O,O')bis[2-(3-aminopropyl)-5-nitro-1H-benz[de]isoquinoline-1,3(2H)-dione-NN2]-, (OC-6-11)-(9CI) (CA INDEX NAME)

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L46 ANSWER 21 OF 36 HCA COPYRIGHT 2004 ACS on STN

113:203853 Superoxide dismutase activity of tetrakis(aspirinato)dicopper(II) and its adducts with nitrogen and oxygen donors. Bhirud, R. G.; Srivastava, T. S. (Dep. Chem., Indian Inst. Technol., Bombay, 400 076, India). *Inorganica Chimica Acta*,

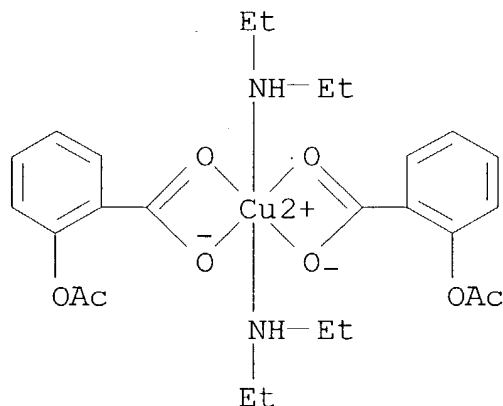
173(1), 121-5 (English) 1990. CODEN: ICHAA3. ISSN: 0020-1693.

IT **130294-23-4P**

(prepn. and ESR of)

RN 130294-23-4 HCA

CN Copper, bis[2-(acetyloxy)benzoato-O1,O1']bis(N-ethylethanamine)-,
(OC-6-11)- (9CI) (CA INDEX NAME)



L46 ANSWER 22 OF 36 HCA COPYRIGHT 2004 ACS on STN

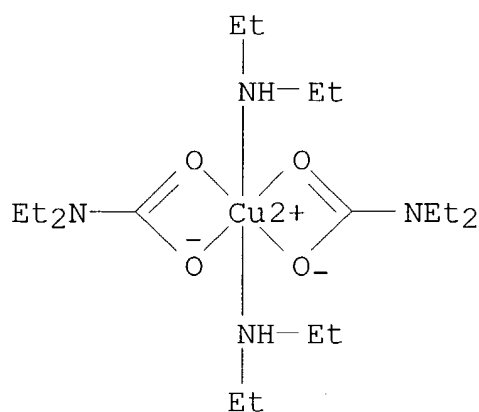
111:69821 Synthesis, properties and crystal and molecular structure of $\text{Cu}_2(\text{O}_2\text{CNEt}_2)_4 \cdot 2\text{NH}_4\text{Et}_2$ and of the hydrolytic product $\text{Cu}_8\text{O}_2(\text{O}_2\text{CN-iso-Pr}_2)_{12}$ [Erratum to document cited in CA110(22):204521v]. Agostinelli, Elisabetta; Dell'Amico, Daniela Belli; Calderazzo, Fausto; Fiorani, Dino; Pelizzi, Giancarlo (Ist. Teor. Strutt. Elettron. Comportamen, Cons. Naz. Ric., Rome, I-00016, Italy). Gazzetta Chimica Italiana, 118(12), 866 (English) 1988. CODEN: GCITA9. ISSN: 0016-5603.

IT **95419-61-7P**

(prepn. and (Erratum))

RN 95419-61-7 HCA

CN Copper, bis(diethylcarbamato-O,O')bis(N-ethylethanamine)- (9CI) (CA INDEX NAME)



L46 ANSWER 23 OF 36 HCA COPYRIGHT 2004 ACS on STN

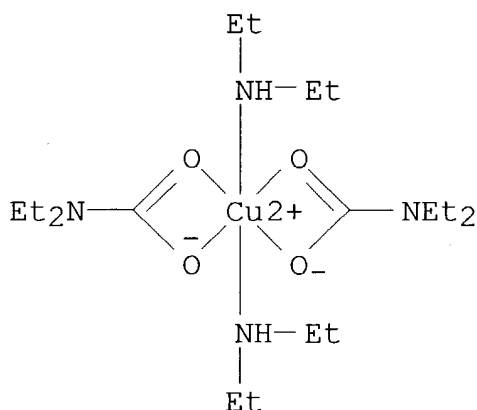
110:204521 Synthesis, properties and crystal and molecular structure of $\text{Cu}_2(\text{O}_2\text{CNEt}_2)_4 \cdot 2\text{NHet}_2$ and of the hydrolytic product $\text{Cu}_8\text{O}_2(\text{O}_2\text{CN-iso-Pr}_2)_{12}$. Agostinelli, Elisabetta; Dell'Amico, Daniela Belli; Calderazzo, Fausto; Fiorani, Dino; Pelizzi, Giancarlo (Ist. Teor. Strutt. Elettron. Comportamen, Cons. Naz. Ric., Rome, I-00016, Italy). Gazzetta Chimica Italiana, 118(10), 729-40 (English) 1988. CODEN: GCITA9. ISSN: 0016-5603.

IT 95419-61-7P

(prepn. of)

RN 95419-61-7 HCA

CN Copper, bis(diethylcarbamato-O,O')bis(N-ethylethanamine)- (9CI) (CA INDEX NAME)



L46 ANSWER 24 OF 36 HCA COPYRIGHT 2004 ACS on STN

103:115005 Synthesis and characterization of some N-benzoylglycinato complexes of chromium(III). Tripathi, S. C.; Baranwal, B. P.;

Shukla, A. K. (Dep. Chem., Univ. Gorakhpur, Gorakhpur, 273001, India). Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 15(5), 641-53 (English) 1985. CODEN: SRIMCN. ISSN: 0094-5714.

IT **98150-14-2P**

(prepn. of)

RN 98150-14-2 HCA

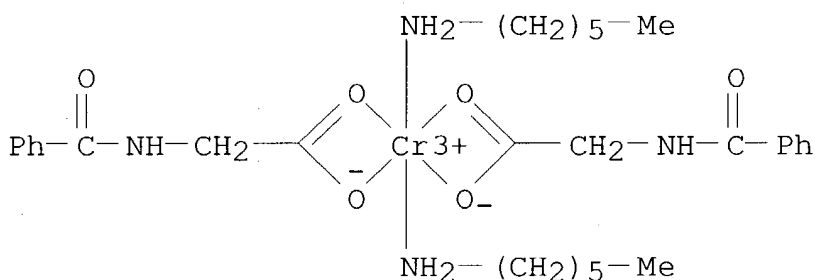
CN Chromium(1+), bis(N-benzoylglycinato-O1,O1')bis(1-hexanamine)-, salt with N-benzoylglycine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 98150-13-1

CMF C30 H46 Cr N4 O6

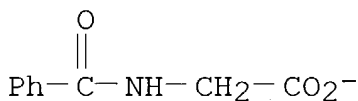
CCI CCS



CM 2

CRN 2260-18-6

CMF C9 H8 N O3



L46 ANSWER 25 OF 36 HCA COPYRIGHT 2004 ACS on STN

102:178057 N,N-Dialkylcarbamato complexes of copper(II). Calderazzo, Fausto; Dell'Amico, Daniela Belli; Pelizzi, Giancarlo (Dip. Chim. Chim. Ind., Univ. Pisa, Pisa, I-56100, Italy). Gazzetta Chimica Italiana, 115(2), 145-6 (English) 1985. CODEN: GCITA9. ISSN: 0016-5603.

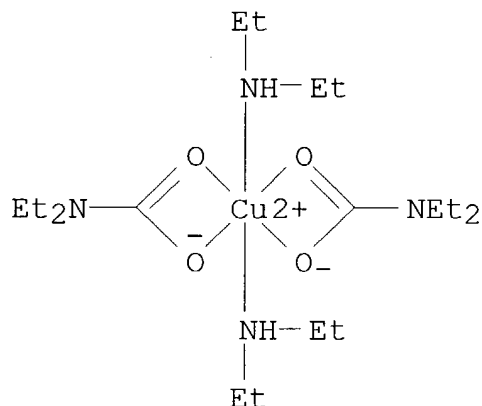
IT **95419-61-7P**

(prepn. and loss of diethylamine from)

RN 95419-61-7 HCA

CN Copper, bis(diethylcarbamato-O,O')bis(N-ethylethanamine)- (9CI) (CA

INDEX NAME)



L46 ANSWER 26 OF 36 HCA COPYRIGHT 2004 ACS on STN

99:98198 Vanillin Schiff bases and their uranium(VI) complexes. Misra, Sushil K.; Siddiqui, Farida S. (Chem. Dep., Lucknow Univ., Lucknow, India). Indian Journal of Physical and Natural Sciences, 3(A), 46-7 (English) 1983. CODEN: IPNSDB. ISSN: 0254-2943.

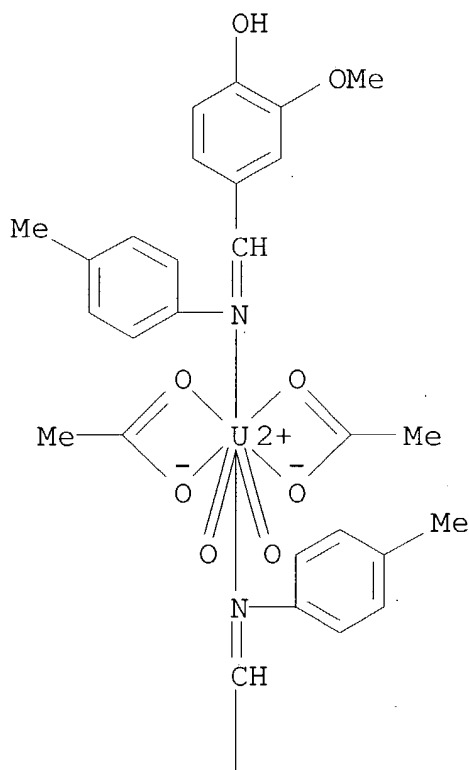
IT 86821-07-0P

(prepn. of)

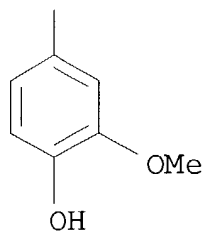
RN 86821-07-0 HCA

CN Uranium, bis(acetato-O,O')bis[2-methoxy-4-[(4-methylphenyl)imino]methyl]phenol-N]dioxo- (9CI) (CA INDEX NAME)

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L46 ANSWER 27 OF 36 HCA COPYRIGHT 2004 ACS on STN

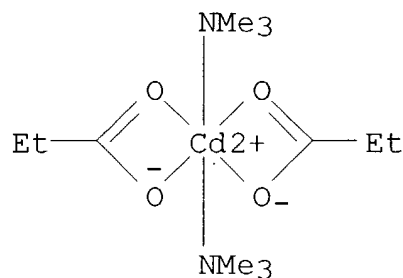
98:190628 Trimethylamine complexes of cadmium monocarboxylates.

Kharitonova, R. I.; Kharitonov, G. V.; Logacheva, S. A. (Voronezh. Tekhnol. Inst., Voronezh, USSR). *Koordinatsionnaya Khimiya*, 9(3), 319-21 (Russian) 1983. CODEN: KOKHDC. ISSN: 0132-344X.

IT 85626-29-5P

(prepn. and thermal decompn. of)

RN 85626-29-5 HCA

CN Cadmium, bis(N,N-dimethylmethanamine)bis(propanoato-O,O')- (9CI)
(CA INDEX NAME)

L46 ANSWER 28 OF 36 HCA COPYRIGHT 2004 ACS on STN

91:185809 Complexing behavior of 2-amino-5-p-methoxyphenyl-1,3,4-oxadiazole. Lakshmi, Mrs.; Rai, R. A. (Dep. Chem., Univ. Gorakhpur, Gorakhpur, 273001, India). Acta Ciencia Indica, Chemistry, 5(1), 29-32 (English) 1979. CODEN: ACICDV. ISSN: 0253-7338.

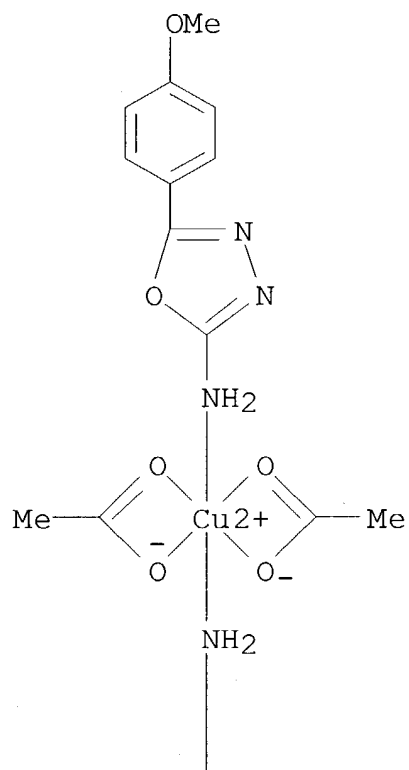
IT **71852-18-1P**

(prepn. and fungicidal activity of)

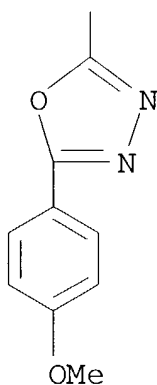
RN 71852-18-1 HCA

CN Copper, bis(acetato-O,O')bis[5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-amine-N2]- (9CI) (CA INDEX NAME)

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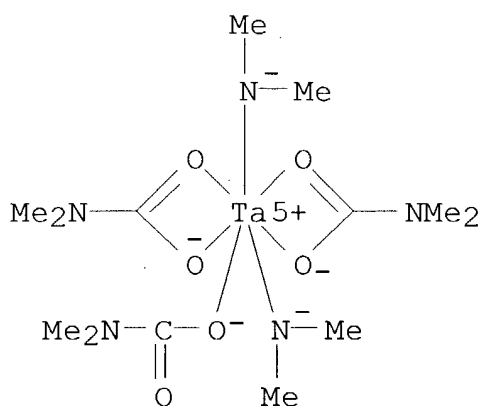
Structure and dynamical solution behavior of a compound containing seven-coordinate tantalum. Chisholm, Malcolm H.; Cotton, F. Albert; Extine, Michael W. (Dep. Chem., Princeton Univ., Princeton, NJ, USA). Inorganic Chemistry, 17(7), 2000-3 (English) 1978. CODEN: INOCAJ. ISSN: 0020-1669.

IT 62292-30-2

(crystal structure of)

RN 62292-30-2 HCA

CN Tantalum, tris(dimethylcarbamato-O)bis(N-methylmethanaminato)-, (PB-7-23-111'1'3)- (9CI) (CA INDEX NAME)



L46 ANSWER 30 OF 36 HCA COPYRIGHT 2004 ACS on STN

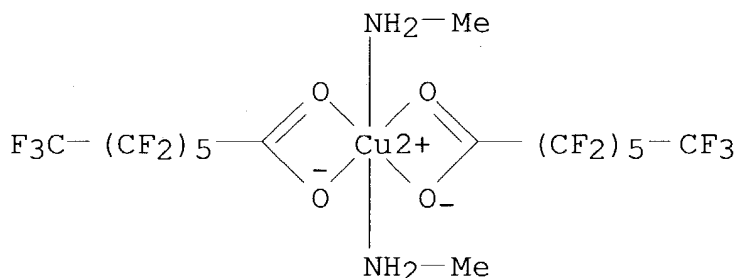
88:44321 EPR study of the composition of mixed complexes of copper(II) perfluorooenanthate with some organic bases. Solozhenkin, P. M.; Ivanov, A. V.; Semenov, E. V. (Inst. Khim., Dushanbe, USSR). Doklady Akademii Nauk Tadzhikskoi SSR, 20(9), 29-32 (Russian) 1977. CODEN: DANTAL. ISSN: 0002-3469.

IT 65532-37-8P

(prepn. and ESR spectrum of)

RN 65532-37-8 HCA

CN Copper, bis(methanamine)bis(tridecafluoroheptanoato-O,O')- (9CI) (CA INDEX NAME)



L46 ANSWER 31 OF 36 HCA COPYRIGHT 2004 ACS on STN

86:120350 Reactions of transition metal-nitrogen σ bonds. 4.

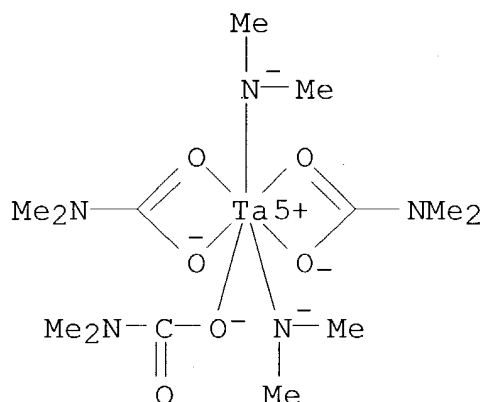
Mechanistic studies of carbon dioxide insertion and carbon dioxide exchange reactions involving early transition metal dimethylamido and N,N-dimethylcarbamato compounds. Chisholm, Malcolm H.; Extine, Michael W. (Dep. Chem., Princeton Univ., Princeton, NJ, USA). Journal of the American Chemical Society, 99(3), 792-802 (English) 1977. CODEN: JACSAT. ISSN: 0002-7863.

IT **62292-30-2P**

(prepn. and NMR of)

RN 62292-30-2 HCA

CN Tantalum, tris(dimethylcarbamato-O)bis(N-methylmethanaminato)-, (PB-7-23-111'1'3)- (9CI) (CA INDEX NAME)



L46 ANSWER 32 OF 36 HCA COPYRIGHT 2004 ACS on STN

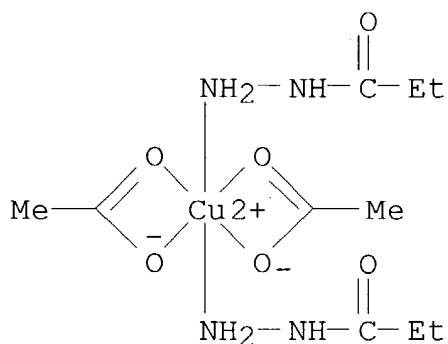
86:47725 Studies on the reaction between copper(II) acetate and sulfate and some acid hydrazides. Taha, F. I. M.; Moussa, M. N. H.; Shallaby, A. M.; Mostafa, M. M. (Chem. Dep., El Mansoura Univ., Mansoura, Egypt). Acta Chimica Academiae Scientiarum Hungaricae, 90(1), 33-42 (English) 1976. CODEN: ACASA2. ISSN: 0001-5407.

IT **61525-44-8**

(magnetic moment and structure of)

RN 61525-44-8 HCA

CN Copper, bis(acetato-O,O')bis(propanoic acid hydrazide)- (9CI) (CA INDEX NAME)



L46 ANSWER 33 OF 36 HCA COPYRIGHT 2004 ACS on STN

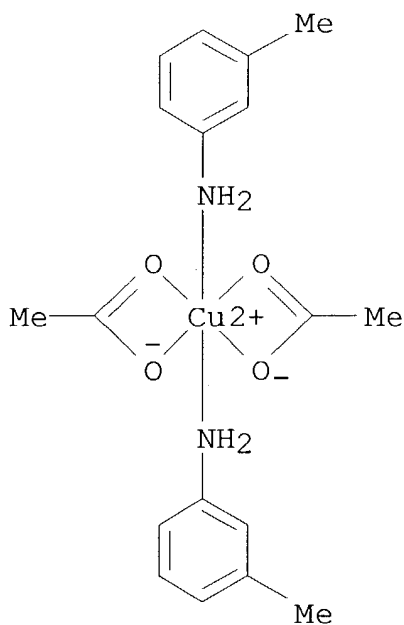
75:13294 Effect of the nature of ligands on the metal-metal interaction in copper(II) alkanoates. Yablokov, Yu. V.; Gavrilov, V. V.; Milkova, L. N.; Ablov, A. V. (Kazan. Fiz.-Tekh. Inst., Kazan, USSR). Zhurnal Strukturnoi Khimii, 12(2), 237-44 (Russian) 1971. CODEN: ZSTKAI. ISSN: 0136-7463.

IT 33379-20-3

(electron spin resonance of, bonding in relation to)

RN 33379-20-3 HCA

CN Copper, bis(acetato)bis(m-toluidine)- (8CI) (CA INDEX NAME)



L46 ANSWER 34 OF 36 HCA COPYRIGHT 2004 ACS on STN

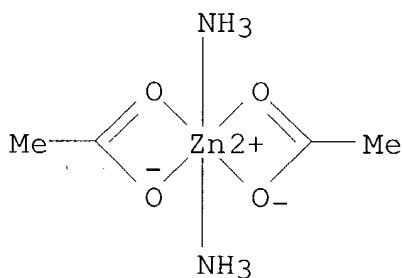
75:12754 Infrared spectra and structure of zinc formate and acetate diammoniates. Grigor'ev, A. I.; Pogodilova, E. G. (Mosk. Gos.Univ. im. Lomonosova, Moscow, USSR). Zhurnal Strukturnoi Khimii, 12(2), 263-5 (Russian) 1971. CODEN: ZSTKAI. ISSN: 0136-7463.

IT **32965-77-8**

(spectrum of, deuterium isotopic effects in, structure in relation to)

RN 32965-77-8 HCA

CN Zinc, bis(acetato)diammine- (8CI) (CA INDEX NAME)



L46 ANSWER 35 OF 36 HCA COPYRIGHT 2004 ACS on STN

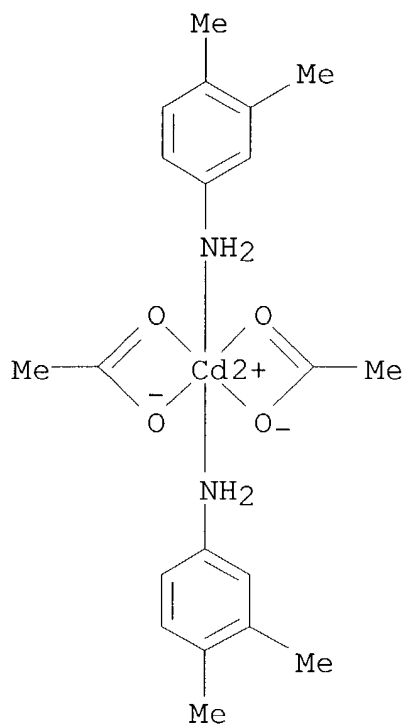
70:25276 Aniline complexes of cadmium(II) acetate. Ahuja, I. S. (Banaras Hindu Univ., Varanasi, India). Australian Journal of Chemistry, 21(11), 2805-7 (English) 1968. CODEN: AJCHAS. ISSN: 0004-9425.

IT **22364-07-4P**

(prepn. of)

RN 22364-07-4 HCA

CN Cadmium, bis(acetato)bis(3,4-xylylidine)- (8CI) (CA INDEX NAME)



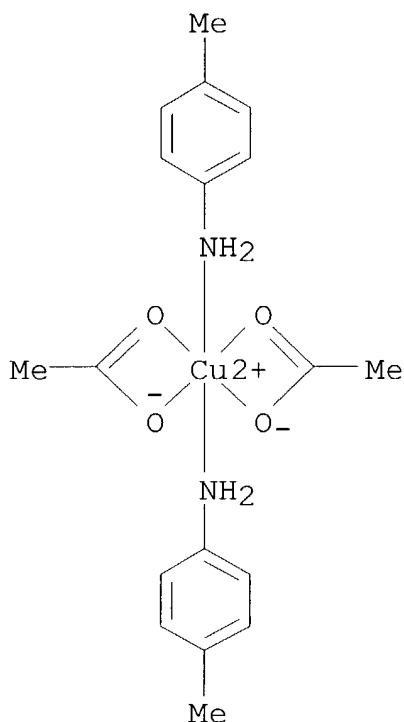
L46 ANSWER 36 OF 36 HCA COPYRIGHT 2004 ACS on STN

61:52063 Original Reference No. 61:9022c-e Magnetic studies with copper(II) salts. VI. Variable singlet-triplet energies in amine-substituted copper(II) alkanoates. Kokot, E.; Martin, R. L. (Univ. New South Wales, Sydney). Inorg. Chem., 3(9), 1306-12 (Unavailable) 1964.

IT **33379-21-4**, Copper, bis(acetato)bis(p-toluidine)-
(magnetic properties of)

RN 33379-21-4 HCA

CN Copper, bis(acetato)bis(p-toluidine)- (7CI, 8CI) (CA INDEX NAME)



=> file caold

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=> d 112 1-6 ti

L12 ANSWER 1 OF 6 CAOLD COPYRIGHT 2004 ACS on STN

TI Ru carboxylate complexes

L12 ANSWER 2 OF 6 CAOLD COPYRIGHT 2004 ACS on STN

TI detn. of activation energy and order of the stereo-specific polymerization of butadiene by differential thermal analysis

L12 ANSWER 3 OF 6 CAOLD COPYRIGHT 2004 ACS on STN

TI long-chain carboxylates of bivalent metals

- L12 ANSWER 4 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
TI magnetic studies with Cu(II) salts - (VI) variable singlet-triplet
energies in amine-substituted Cu(II) alkanoates
- L12 ANSWER 5 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
TI structure of complexes of Cu acetate and chloroacetate by electron
paramagnetic resonance
- L12 ANSWER 6 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
TI Cu(II) soaps - (I) structural investigations of Cu soaps and their
complexes with pyridine and dioxane in solid state

=> file reg

FILE 'REGISTRY' ENTERED AT 20:47:22 ON 20 APR 2004
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L1 STR
L2 STR L1
L3 STR

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FILE 'CAOLD' ENTERED AT 20:27:54 ON 20 APR 2004

L8 0 S L7

FILE 'ZCAPLUS' ENTERED AT 20:28:05 ON 20 APR 2004

L9 6 S L7

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L12 6 S L11

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L13 246 S L11
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L16 1 S L13 AND L15
L17 43220 S SCAVENG?
L18 1 S L13 AND L17
L19 1 S L13 AND L14
L20 QUE 74/SC, SX
L21 540797 S LUM!NES? OR FLUORES? OR PHOSPHOR# OR PHOSPHORES?
L22 1 S L13 AND L20

L23 3 S L13 AND L21
SEL L16 1 RN

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L28 2 S E15-E16

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L29 1 S L28

FILE 'LREGISTRY' ENTERED AT 20:37:48 ON 20 APR 2004

L30 STR L1

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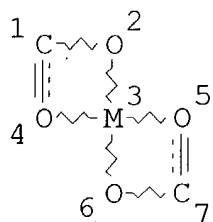
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L43 9 S L39
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L46 36 S (L43 OR L44) NOT L45
L47 35 S L46 AND (1907-2002/PRY OR 1907-2002/PY)

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L2 STR



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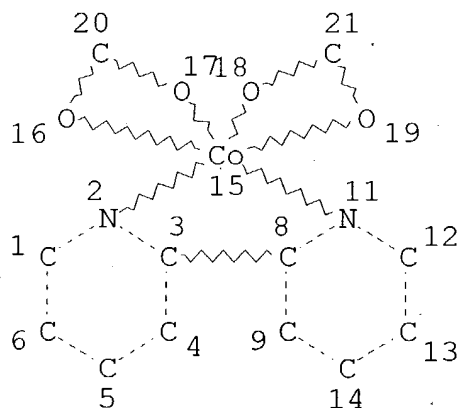
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L3 STR



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DEFAULT ECLEVEL IS LIMITED

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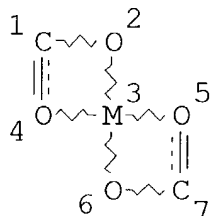
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8 ANSWERS

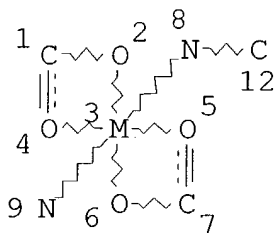
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NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L5 6229 SEA FILE=REGISTRY SSS FUL L2
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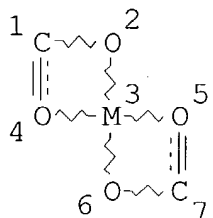
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45 ANSWERS

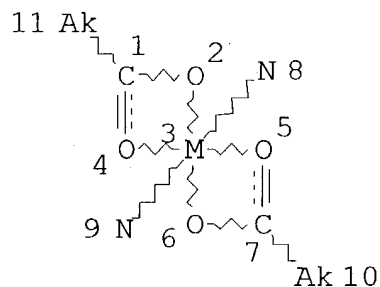
=> d 138 que stat
L2 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L5 6229 SEA FILE=REGISTRY SSS FUL L2
L34 STR



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GGCAT IS SAT AT 10
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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 5492 ITERATIONS

200 ANSWERS

SEARCH TIME: 00.00.01

=> file zcaplus

FILE 'ZCAPLUS' ENTERED AT 20:48:44 ON 20 APR 2004

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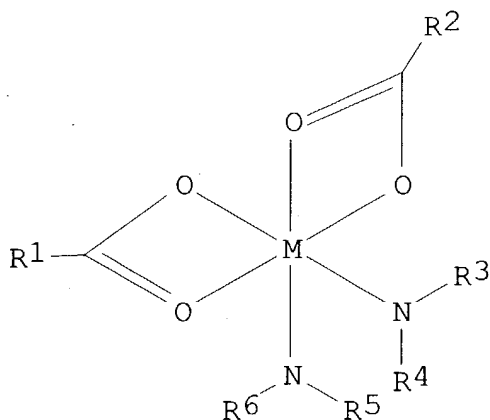
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=> d 19 1-6 cbib abs hitstr hitrn

L9 ANSWER 1 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN

2004:251900 Document No. 140:278555 Water-scavenging agent for an organic electroluminescent device and organic electroluminescent device comprising same. Takahashi, Hisamitsu; Hieda, Shigeru; Tsuruoka, Yoshihisa; Tanaka, Satoshi (Futaba Corporation, Japan). U.S. Pat. Appl. Publ. US 2004056232 A1 20040325, 14 pp. (English). CODEN: USXXCO. APPLICATION: US 2003-659255 20030911. PRIORITY: JP 2002-267138 20020912.

GI

application

I

AB A novel water-scavenging agent of the present invention comprising a

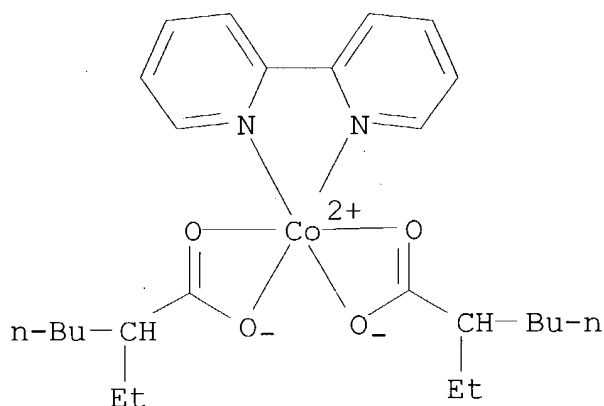
compd. of formula I as a primary component can be dissolved in a polar solvent and coated by a screen printing method, and the inventive org. EL device comprising same can maintain stable luminescent characteristics for a prolonged time: I wherein, R1 , R2 , R3 , R4 , R5 and R6 are each independently hydrogen; halogen; alkyl, aryl, cycloalkyl or hetero-ring, optionally substituted with at least one halogen atom, and M is a metal having a coordination no. of 6.

IT 674293-39-1 674293-40-4

(water-scavenging agent for an org. electroluminescent device)

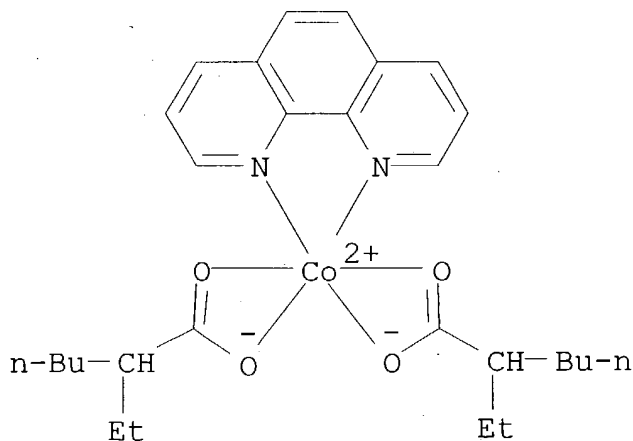
RN 674293-39-1 ZCAPLUS

CN INDEX NAME NOT YET ASSIGNED



RN 674293-40-4 ZCAPLUS

CN Cobalt, bis(2-ethylhexanoato- κ O, κ O') (1,10-phenanthroline- κ N1, κ N10)-, (OC-6-21)- (9CI) (CA INDEX NAME)



IT 674293-39-1 674293-40-4

(water-scavenging agent for an org. electroluminescent device)

L9 ANSWER 2 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN

2001:887294 Document No. 136:160435 Precursors of hexa-azamacrocycles. Synthesis and X-ray structure of 2,9-diaminophenanthroline-bisacetate-Co(II) and 6,6'-diaminobipyridine-bisacetate-M(II) (M = Ni, Cu). Costamagna, Juan; Caruso, Francesco; Rossi, Miriam; Campos, Marcelo; Canales, Juan; Ramirez, Juan (Faculty of Chemistry and Biology, Universidad de Santiago de Chile, Santiago, 33, Chile). Journal of Coordination Chemistry, 54(3-4), 247-259 (English) 2001. CODEN: JCCMBQ. ISSN: 0095-8972. OTHER SOURCES: CASREACT 136:160435. Publisher: Gordon & Breach Science Publishers.

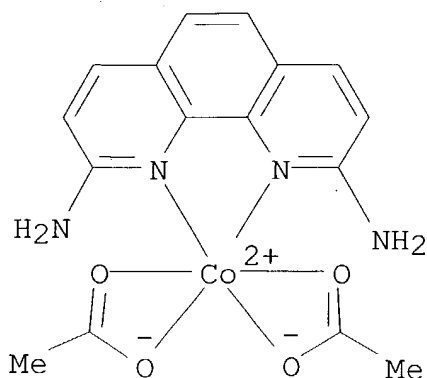
AB The synthesis, conventional characterizations and x-ray structures of the following monomeric complexes are given for 2,9-diamino-1,10-phenanthroline-bisacetate-Co(II) (A) and 6,6'-diamino-2,2'-bipyridine-bisacetate-M(II) (M = Ni (C) and Cu (B)). Complex A crystallizes in the monoclinic, space group C2/c with a 12.813(6), b 10.218(3), c 13.811(5) , Å; β 118.17(2)°; Z = 4. A total of 1787 unique reflections with $F > 6\sigma(F)$ were refined to values of R and $R_w = 0.0461$ and 0.0774, resp. Complex B crystallizes in the triclinic, P-1 space group with a 10.099(5), b 10.257(5), c 8.015(11) , Å; α 112.98(2), β 93.13(2), γ 92.960(2)°,°; Z = 2; V = 761(1), Å³. A total of 2603 unique reflections with $F > 3.00\sigma(F)$ were refined to values of R and $R_w = 0.0764$ and 0.1022, resp. Complex C crystallizes in the monoclinic, space group P21/n with a 8.124(5), b 10.343(6), c 18.724(11) , Å; β = 98.36(2)°,°; Z = 4; V = 1556(1), Å³. A total of 2537 unique reflections with $F > 3.00\sigma(F)$ were refined to values of R and $R_w = 0.0689$ and 0.0975, resp. The structures consist of six-coordinate [M(CH₃COO)₂(L)] (L = 2,9-diaminophenanthroline or 6,6'-diaminobipyridine) discrete monomeric neutral species, except for the Cu(II) compd. where the elongation of two long Cu-O bonds, due to the Jahn-Teller effect, makes the metal essentially four-coordinate. In the Ni and Co compds. the acetate acts as a bidentate ligand. The diamino ligands are coordinated via the pyridine N atoms. The IR spectra of the complexes were recorded and are discussed in relation to the crystal structure and the acetate coordination mode.

IT 393823-94-4P

(prepn. and crystal structure of)

RN 393823-94-4 ZCAPLUS

CN Cobalt, bis(acetato- κ O, κ O') (1,10-phenanthroline-2,9-diamine- κ N1, κ N10)-, (OC-6-21)- (9CI) (CA INDEX NAME)



IT 393823-94-4P

(prepn. and crystal structure of)

L9 ANSWER 3 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN

2001:800239 Document No. 136:95049 Synthesis and characterization of mixed-ligand complexes of ferrocenylacrylic acid, 1,10-phenanthroline, and 8-quinolinol with transition metals and lead(II). Zhang, Hong-Yun; Lei, Jing; Chen, Yi-Yun; Wu, Qing-An; Li, Jin-Peng (School of Chemistry and Chemical Engineering of Zhengzhou University, Zhengzhou, 450052, Peop. Rep. China). Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 31(8), 1339-1353 (English) 2001. CODEN: SRIMCN. ISSN: 0094-5714. OTHER SOURCES: CASREACT 136:95049. Publisher: Marcel Dekker, Inc..

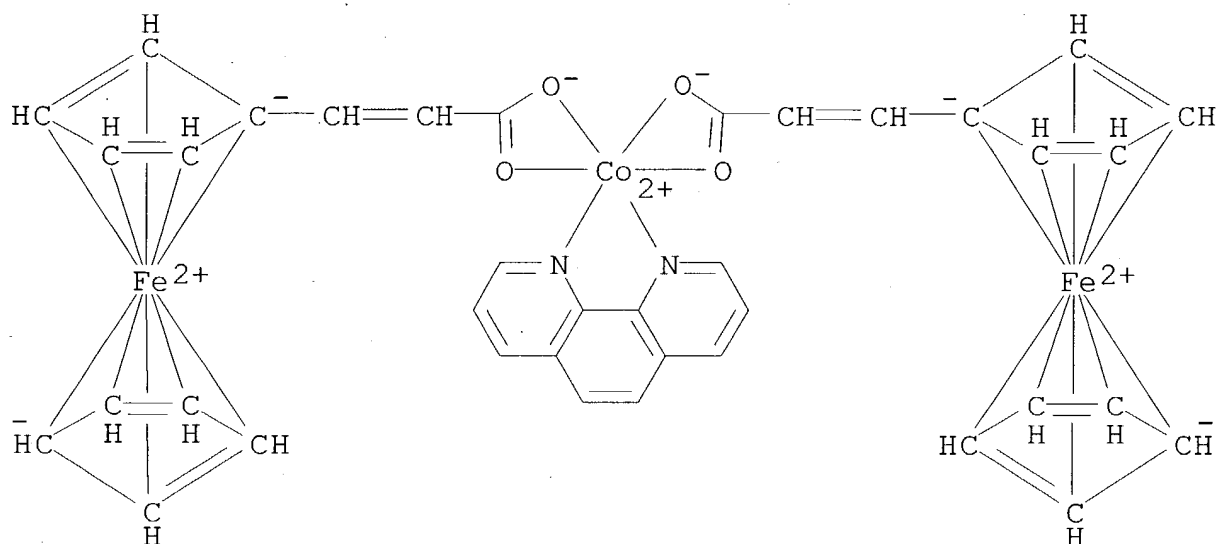
AB Seven complexes of ferrocenylacrylic acid (HL) with selected transition metals and lead(II), five mixed-ligand complexes of HL and 1,10-phenanthroline (phen) with Zn(II), Cd(II), Hg(II), Co(II) and Pb(II) and three mixed-ligand complexes of HL and 8-quinolinol (HOX) with Zn(II), Cd(II) and Pb(II) were synthesized and characterized. The carboxylic group of HL can coordinate to metal ions in a sym. bidentate manner in the mono-complexes or mixed-ligand complexes. HL coordinates with a metal ion in a 2:1 molar ratio, while the ligands HL, phen and HL, HOX coordinate with a metal ion in 2:1:1 and 1:1:1 ratios, resp. For each complex in the three series, the thermal stabilities are higher than those of the corresponding ligands, and the mono-complexes of the metal ion with HL are more stable than the mixed-ligand complexes of the metal ions with phen or HOX.

IT 387355-31-9P

(prepn. of)

RN 387355-31-9 ZCAPLUS

CN Cobalt, bis[[[(1E)-2-(carboxy-κO,κO')ethenyl]ferrocenato] (1,10-phenanthroline-κN1,κN10)-, (OC-6-21)- (9CI) (CA INDEX NAME)



IT 387355-31-9P
(prepn. of)

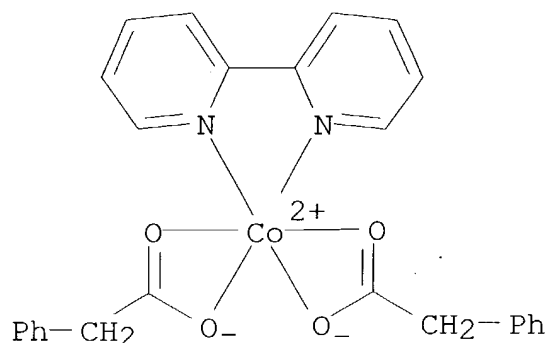
L9 ANSWER 4 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN
1985:142239 Document No. 102:142239 Cobalt(II) and zinc(II)
phenylacetate complexes with nitrogen donor ligands. Das,
Bisweswar; Roy, P. C. (Dep. Chem., Gov. Coll., Rourkela, 769 004,
India). Journal of the Indian Chemical Society, 61(8), 697-8
(English) 1984. CODEN: JICSAH. ISSN: 0019-4522.

AB ML2L12 (M = Co, Zn; HL = phenylacetic acid; L1 = py,
 γ -picoline) and ML2L2 (L2 = 2,2'-bipyridine,
1,10-phenanthroline) were prepd. from ML2 and L1 or L2, resp., in
EtOH. The Co complexes are paramagnetic and octahedral and the Zn
complexes are octahedral. The phenylacetate ligands are bidentate.
The complexes were characterized by IR spectra and elec. cond. and
magnetic moment measurements.

IT 95686-37-6P 95686-38-7P
(prepn. of)

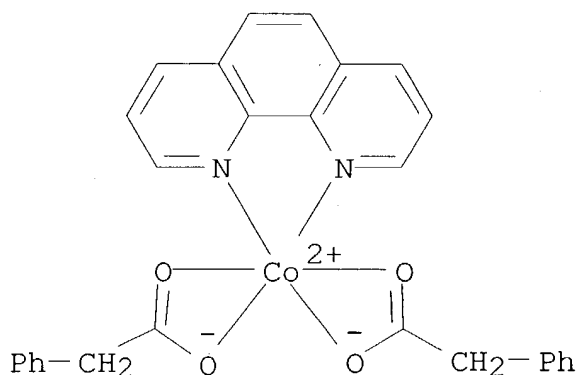
RN 95686-37-6 ZCAPLUS

CN Cobalt, bis(benzeneacetato-O,O') (2,2'-bipyridine-N,N')-, (OC-6-21)-
(9CI) (CA INDEX NAME)



RN 95686-38-7 ZCAPLUS

CN Cobalt, bis(benzeneacetato-O,O') (1,10-phenanthroline-N1,N10)-,
(OC-6-21)- (9CI) (CA INDEX NAME)



IT 95686-37-6P 95686-38-7P
(prepn. of)

L9 ANSWER 5 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN
1979:412975 Document No. 91:12975 N-Acetyl-DL-leucinate-cobalt(II),
-nickel(II) and -zinc(II) complexes. Marcotrigiano, G.; Morini, P.;
Menabue, L.; Pellacani, G. C. (Fac. Med.-Vet., Univ. Bari, Bari,
70126, Italy). Transition Metal Chemistry (Dordrecht, Netherlands),
4(2), 119-22 (English) 1979. CODEN: TMCHDN. ISSN: 0340-4285.

AB Complexes of the type M(AcLeu)2B2 (M = Co, Ni, Zn; AcLeuH =
N-acetyl-DL-leucine; B = H2O, py, 3- and 4-picoline) and M(AcLeu)2B
(M = Co, Zn; B = o-phenanthroline (phen)) were prep'd. and
investigated by means of magnetic and spectroscopic measurements.
The IR spectra of all the complexes are consistent with bidentate
coordination of the amino acid to the metal ion. The room-temp.
solid-state electronic spectra indicate that the symmetry of this
species is closer to D4h and that MO6 and MO4N2 chromophores are

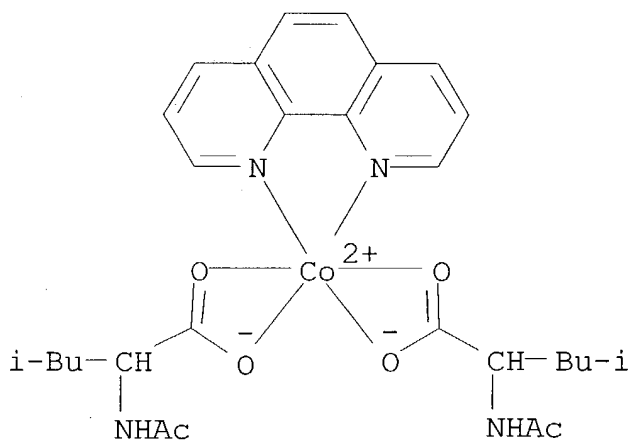
present in the $M(\text{AcLeu})_2 \cdot 2\text{H}_2\text{O}$ and $M(\text{AcLeu})_2\text{Bn} \cdot x\text{H}_2\text{O}$ ($\text{B} = \text{py}$, 3- and 4-picoline, $n = 2$ and $x = 0$ for $M = \text{Ni}$; $\text{B} = \text{phen}$, $n = 1$ and $x = 0$ for $M = \text{Co}$; $\text{B} = \text{py}$, 3- and 4-picoline, $n = 1$ and $x = 1$ for $M = \text{Co}$) complexes, resp. By comparing the Dq values of the amino acid and those of other N-substituted amino acids previously studied, a spectrochem. series of the Co(II) and Ni(II) complexes is proposed. The ^1H NMR spectra of the Zn complexes confirm the proposed stereochem.

IT 70505-24-7P

(prepn. of)

RN 70505-24-7 ZCAPLUS

CN Cobalt, bis(N-acetyl-leucinato-O1,O1') (1,10-phenanthroline-N1,N10)-, (OC-6-21)- (9CI) (CA INDEX NAME)



IT 70505-24-7P

(prepn. of)

L9 ANSWER 6 OF 6 ZCAPLUS COPYRIGHT 2004 ACS on STN

1979:161442 Document No. 90:161442 Cobalt(II), nickel(II) and zinc(II) complexes of peptide-group containing amino acids.

Bis(N-acetyl-DL-valinate)metal(II) complexes and their amine adducts. Marcotrigiano, Giuseppe; Menabue, Ledi; Pellacani, Gian Carlo; Saladini, Monica (Fac. Med. Vet., Univ. Bari, Bari, Italy). Inorganica Chimica Acta, 32(2), 149-55 (English) 1979. CODEN: ICHAA3. ISSN: 0020-1693.

AB First-row transition metal(II) complexes of N-acetyl-DL-valine (HAcVal) of the type $M(\text{AcVal})_2 \cdot x\text{H}_2\text{O}$ ($M = \text{Co}$, Ni and $x = 2$; $M = \text{Zn}$ and $x = 0$) and their amine adducts of the type $M(\text{AcVal})_2\text{Q}_2 \cdot x\text{H}_2\text{O}$ ($M = \text{Co}$, Ni , and Zn ; $\text{Q} = \text{pyridine}$, 3- and 4-methylpyridine (pic), 1,10-phenanthroline) were prep'd. and studied by magnetic measurements and electronic, IR and ^1H NMR spectroscopy. Magnetic moments and electronic spectra of the Co(II) and Ni(II) compds.,

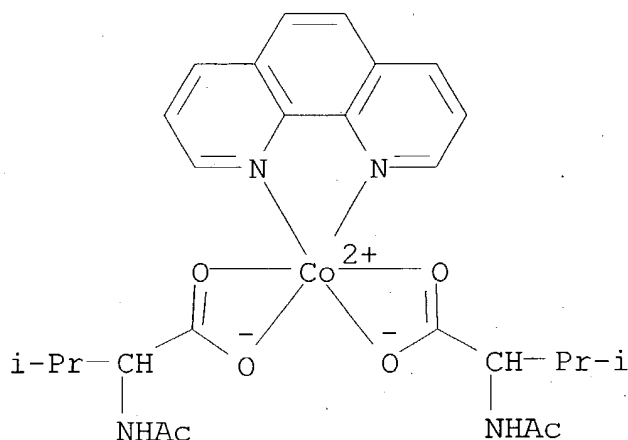
consistent with hexacoordinated metal(II) with some distortion from the Oh symmetry, suggest the presence of MO6 and MO4N2 chromophores for the hydrate and base adducts, resp. By comparing the Dq values of the present complexes and those of the other N-substituted amino acids previously studied, a spectrochem. series of the amino acid ligands is constructed. The IR spectra agree with the coordination of the amino acid toward the carboxyl group. The trans-effect of the amines, with respect to that of H2O, results in a weakening of the N-acetyl-DL-valinate coordination strength in the order py > 4-pic > 3-pic, as steric effects prevail over the inductive effects. The soln. electronic and IR spectra, which are very similar to those of the solid compds., and the 1H NMR spectra of the diamagnetic Zn(II) complexes indicate that the same complexes also exist in soln. The coupling of the CHNH group in the 1H NMR spectra and the shift of the $\nu(\text{NH})$ and $\delta(\text{NH})$ vibrations in the IR spectra of the soln., with respect to the solid complexes, indicate that the H bonding of the NH group present in the solid complexes is removed in CHCl3 soln.

IT 69880-21-3P

(prepn. of)

RN 69880-21-3 ZCAPLUS

CN Cobalt, bis(N-acetylvalinato-O1,O1') (1,10-phenanthroline-N1,N10)-, (OC-6-21)- (9CI) (CA INDEX NAME)



IT 69880-21-3P

(prepn. of)